STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3
AMENDED REPORT ☑

APPLICATION FOR PERMIT TO DRILL		1. WELL NAME and NUMBER: NBU 920-12H
2. TYPE OF WORK: DRILL NEW WELL ◉ REENTER P&A WELL ○ DEEPEN WELL ○		3. FIELD OR WILDCAT: NATURAL BUTTES
4. TYPE OF WELL: Gas Well Coalbed Methane Well: NO		5. UNIT or COMMUNITIZATION AGREEMENT NAME: NATURAL BUTTES
6. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. OPERATOR PHONE: 720 929-6587
8. ADDRESS OF OPERATOR: P.O. Box 173779, Denver, CO, 80217		9. OPERATOR E-MAIL: mary.mondragon@anadarko.com
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE): UTU-0144868B	11. MINERAL OWNERSHIP: FEDERAL ◉ INDIAN ○ STATE ○ FEE ○	12. SURFACE OWNERSHIP: FEDERAL ○ INDIAN ◉ STATE ○ FEE ○
13. NAME OF SURFACE OWNER (if box 12 = 'fee')		14. SURFACE OWNER PHONE (if box 12 = 'fee')
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')		16. SURFACE OWNER E-MAIL (if box 12 = 'fee')
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN'): Ute Indian Tribe	18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS: YES ◉ (Submit Commingling Application) NO ○	19. SLANT: VERTICAL ◉ DIRECTIONAL ○ HORIZONTAL ○

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	2170 FNL 279 FEL	SENE	12	9.0 S	20.0 E	S
Top of Uppermost Producing Zone	2170 FNL 279 FEL	SENE	12	9.0 S	20.0 E	S
At Total Depth	2170 FNL 279 FEL	SENE	12	9.0 S	20.0 E	S

21. COUNTY: UINTAH	22. DISTANCE TO NEAREST LEASE LINE (Feet): 279	23. NUMBER OF ACRES IN DRILLING UNIT: 600
	25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed): 1500	26. PROPOSED DEPTH: MD: 10800 TVD: 0
27. ELEVATION - GROUND LEVEL: 4704	28. BOND NUMBER: WYB000291	29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE: Permit #43-8496

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORCANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES

☑ WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	☑ COMPLETE DRILLING PLAN
☐ AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	☐ FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
☐ DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	☑ TOPOGRAPHICAL MAP

NAME: Raleen White	TITLE: Sr. Regulatory Analyst	PHONE: 720 929-6666
SIGNATURE	DATE: 12/22/2008	EMAIL: raleen.white@anadarko.com

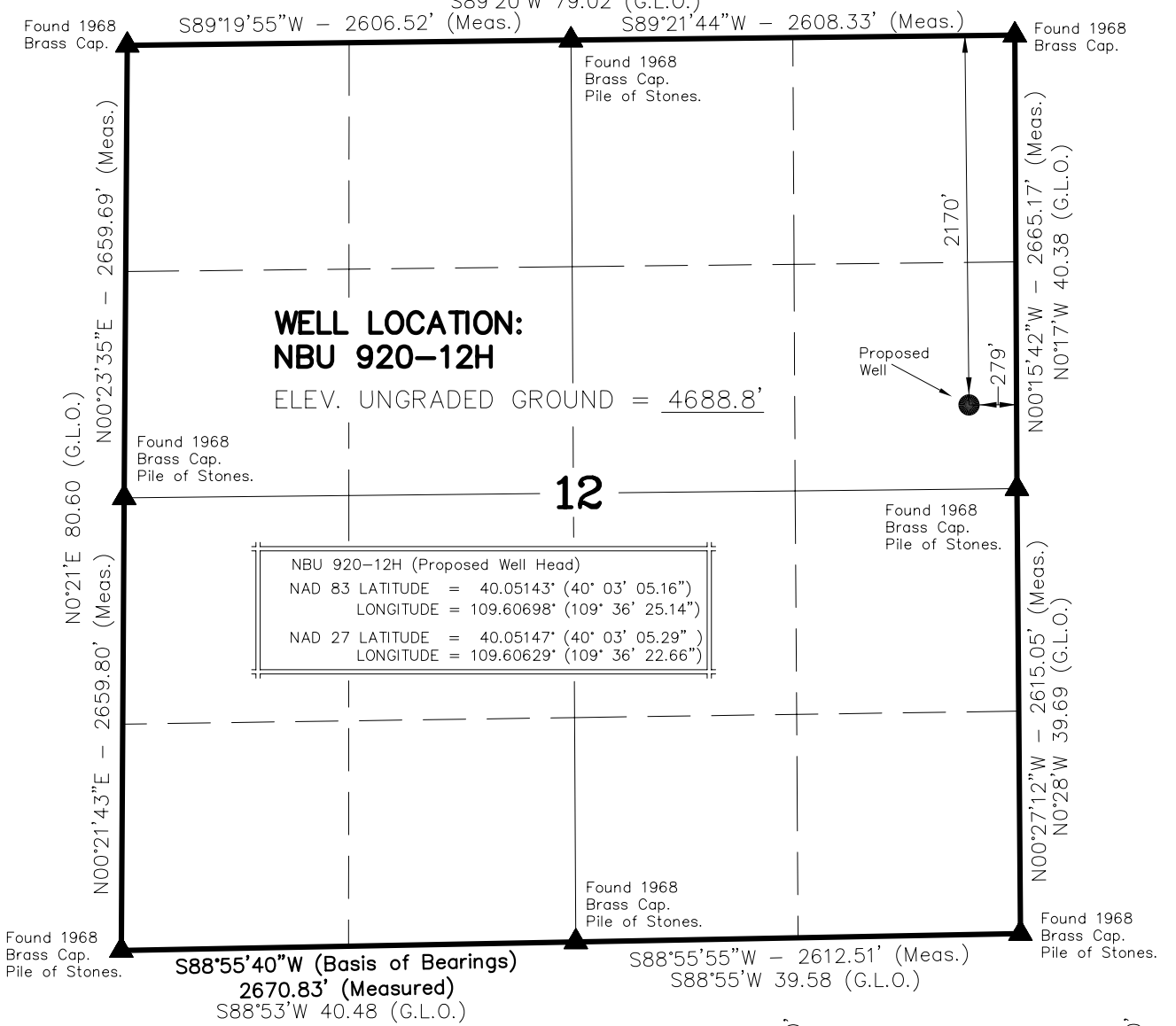
API NUMBER ASSIGNED	APPROVAL
43047501790000	Permit Manager

Proposed Hole, Casing, and Cement						
String	**Hole Size**	**Casing Size**	**Top (MD)**	**Bottom (MD)**		
Surf	12.25	9.625	0	2800		
Pipe	**Grade**	**Length**	**Weight**			
	Grade J-55 LT&C	2800	36.0			
	Cement Interval	**Top (MD)**	**Bottom (MD)**			
		0	2800			
		Cement Description	**Class**	**Sacks**	**Yield**	**Weight**
			Premium Foamed Cement	315	1.18	15.6

Proposed Hole, Casing, and Cement						
String	**Hole Size**	**Casing Size**	**Top (MD)**	**Bottom (MD)**		
Prod	7.875	4.5	0	10750		
Pipe	**Grade**	**Length**	**Weight**			
	Grade I-80 LT&C	10750	11.6			
	Cement Interval	**Top (MD)**	**Bottom (MD)**			
		0	10750			
		Cement Description	**Class**	**Sacks**	**Yield**	**Weight**
			Premium Lite High Strength	520	3.38	12.5
			50/50 Poz	1670	1.31	14.3

'APIWellNo:43047501790000'

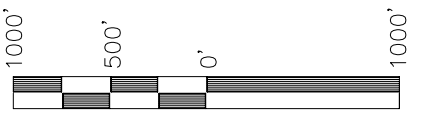
T9S, R20E, S.L.B.&M.



NOTES:

▲ = Section Corners Located

1. Well footages are measured at right angles to the Section Lines.
2. G.L.O. distances are shown in feet or chains. 1 chain = 66 feet.
3. Bearings are based on Global Positioning Satellite observations.
4. Basis of elevation is the Northwest Corner of Section 12, T9S, R20E, S.L.B.&M. The elevation of this Section Corner is shown on the Ouray SE 7.5 Min. Quadrangle as being 4676'.



SCALE

N

SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

PROFESSIONAL LAND SURVEYOR No.6028691 JOHN R SLAUGH STATE OF UTAH

REGISTERED LAND SURVEYOR
REGISTRATION NO. 6028691
STATE OF UTAH

Kerr–McGee
Oil & Gas Onshore, LP
1099 18th Street – Denver, Colorado 80202

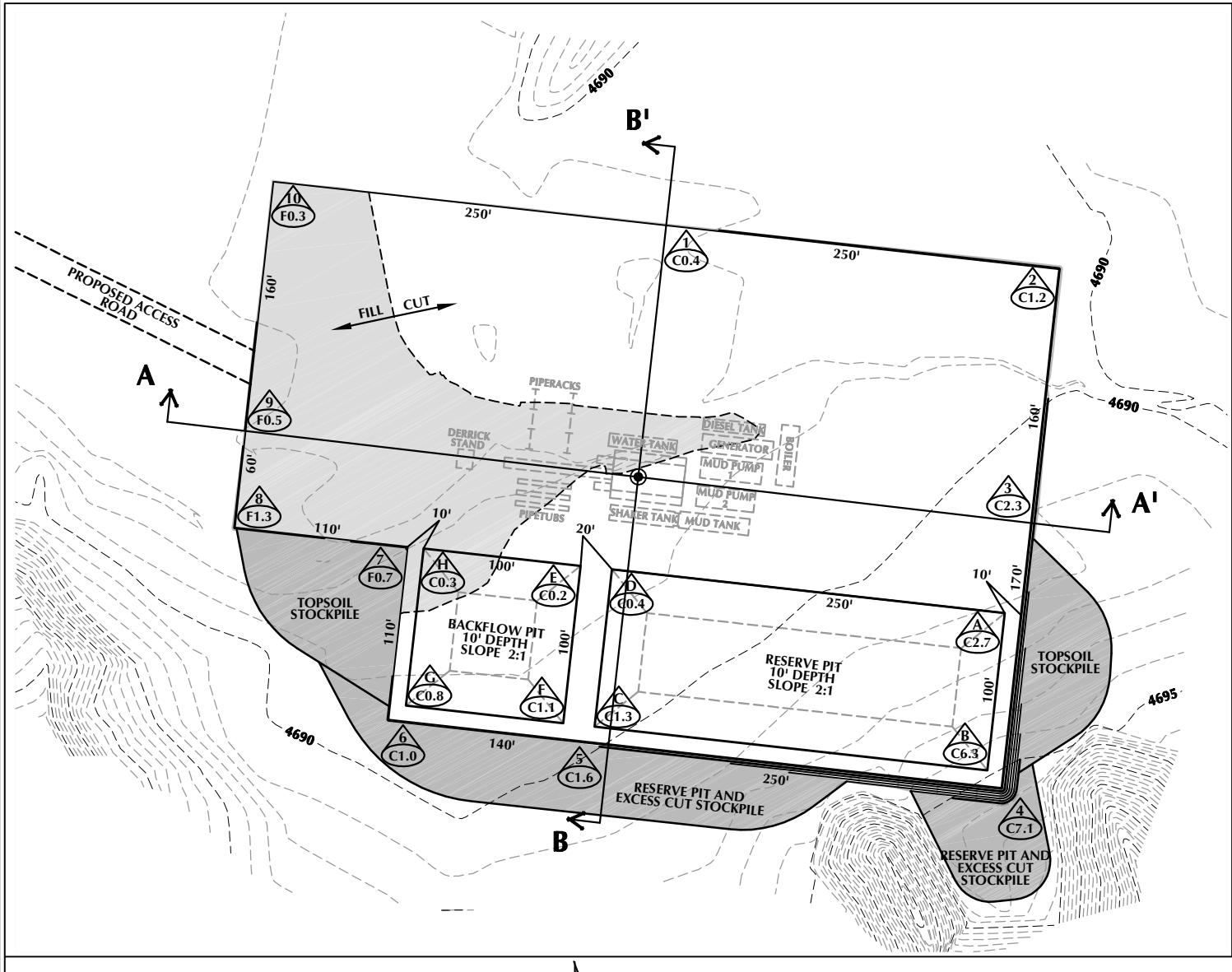
NBU 920-12H
WELL PLAT
2170' FNL, 279' FEL
SE ¼ NE ¼ OF SECTION 12, T9S, R20E,
S.L.B.&M. UINTAH COUNTY, UTAH.

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE (435) 789–1365
ENGINEERING & LAND SURVEYING, INC.
38 WEST 100 NORTH – VERNAL, UTAH 84078

DATE SURVEYED: 06–23–08	SURVEYED BY: M.S.B.	SHEET
DATE DRAWN: 08–02–08	DRAWN BY: B.R.B. J.R.S.	1
SCALE: 1" = 1000'	Date Last Revised:	OF 9

’APIWellNo:43047501790000’



WELL PAD LEGEND

- WELL LOCATION
- EXISTING CONTOURS (1' INTERVAL)
- PROPOSED CONTOURS (1' INTERVAL)

WELL PAD NBU 920-12H QUANTITIES

EXISTING GRADE @ LOC. STAKE = 4,688.8'
FINISHED GRADE ELEVATION = 4,688.5'
CUT SLOPES = 1.5:1
FILL SLOPES = 1.5:1

TOTAL CUT FOR WELL PAD = 2,949 C.Y.
TOTAL FILL FOR WELL PAD = 1,279 C.Y.
TOPSOIL @ 6" DEPTH = 2,905 C.Y.
TOTAL DISTURBANCE = 3.60 ACRES
SHRINKAGE FACTOR = 1.15
SWELL FACTOR = 1.00
RESERVE PIT CAPACITY (2' OF FREEBOARD)
+/- 25,880 BARRELS
RESERVE PIT VOLUME
+/- 7,185 CY
BACKFLOW PIT CAPACITY (2' OF FREEBOARD)
+/- 8,780 BARRELS
BACKFLOW PIT VOLUME
+/- 2,520 CY

HORIZONTAL 0 50 100 1" = 100'
1' CONTOURS

KERR-MCGEE OIL & GAS ONSHORE L.P.
1099 18th Street - Denver, Colorado 80202

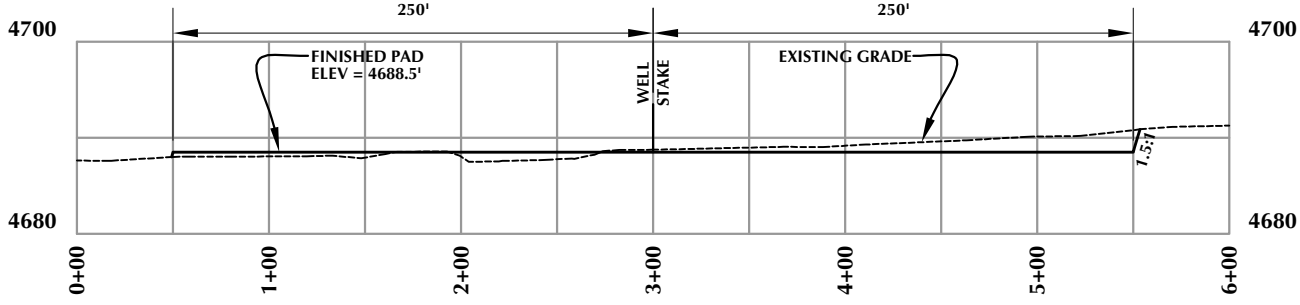
NBU 920-12H
WELL PAD - LOCATION LAYOUT
2170' FNL, 279' FEL
SE1/4NE1/4, SECTION 12, T.9S., R.20E.
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

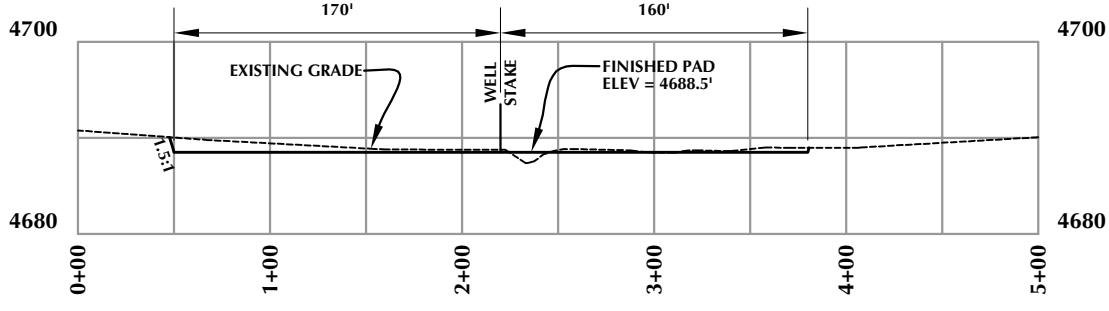
Scale: 1"=100'	Date: 8/15/08	SHEET NO: 2 2 OF 9
REVISED:	BY DATE	

Timberline Engineering & Land Surveying, Inc.
38 WEST 100 NORTH VERNAL, UTAH 84078 (435) 789-1365

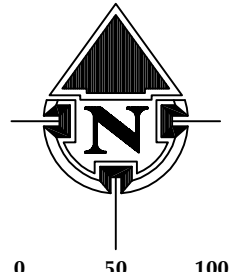
'APIWellNo:43047501790000'



CROSS SECTION A-A'



CROSS SECTION B-B'



HORIZONTAL 0 50 100 1" = 100'

VERTICAL 0 10 20 1" = 20'

KERR-MCGEE OIL & GAS ONSHORE L.P.
1099 18th Street - Denver, Colorado 80202

NBU 920-12H
WELL PAD - CROSS SECTIONS
2170' FNL, 279' FEL
SE1/4NE1/4, SECTION 12, T.9S., R.20E.
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

Scale: 1"=100'	Date: 8/15/08	SHEET NO: 3 3 OF 9
REVISED:	BY DATE	

Timberline (435) 789-1365
Engineering & Land Surveying, Inc.
38 WEST 100 NORTH VERNAL, UTAH 84078

'APIWellNo:43047501790000'

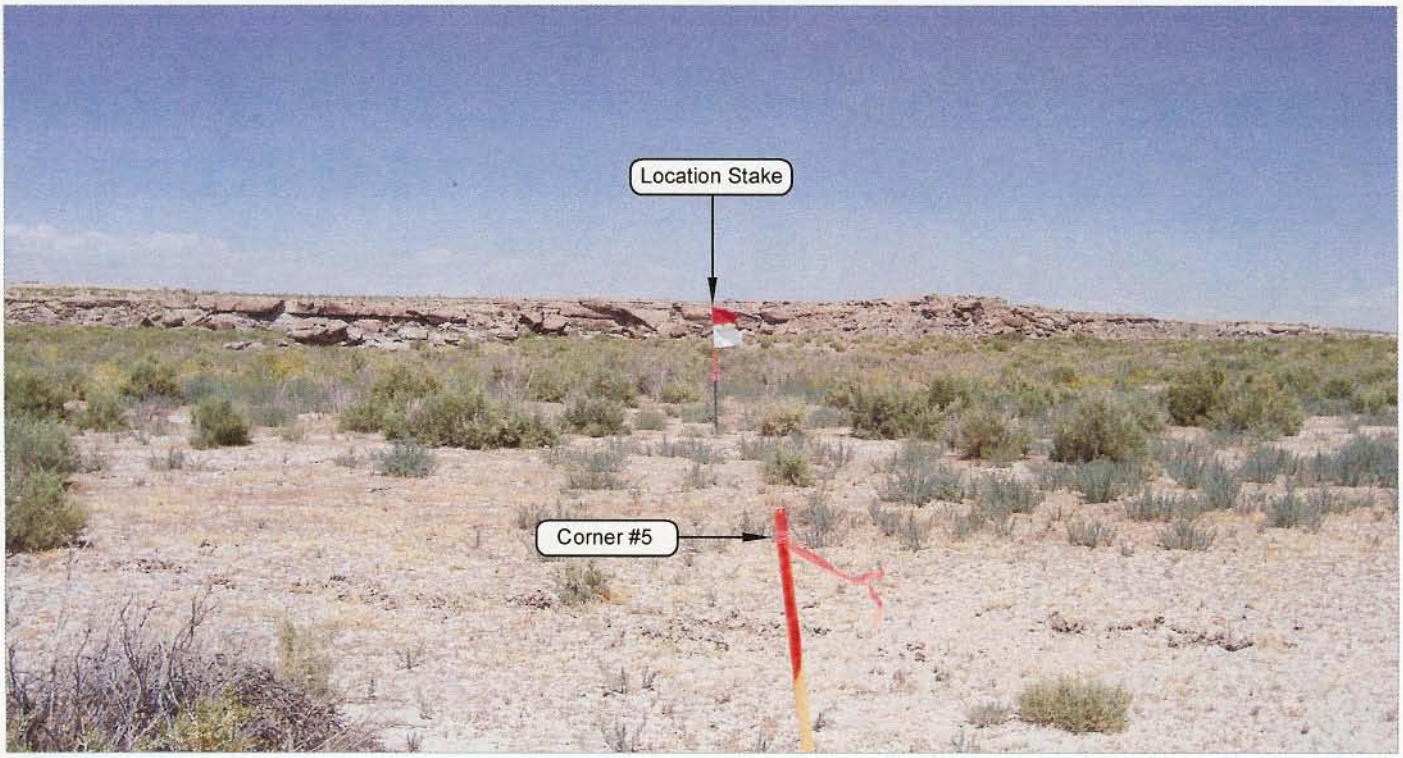


PHOTO VIEW: FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY

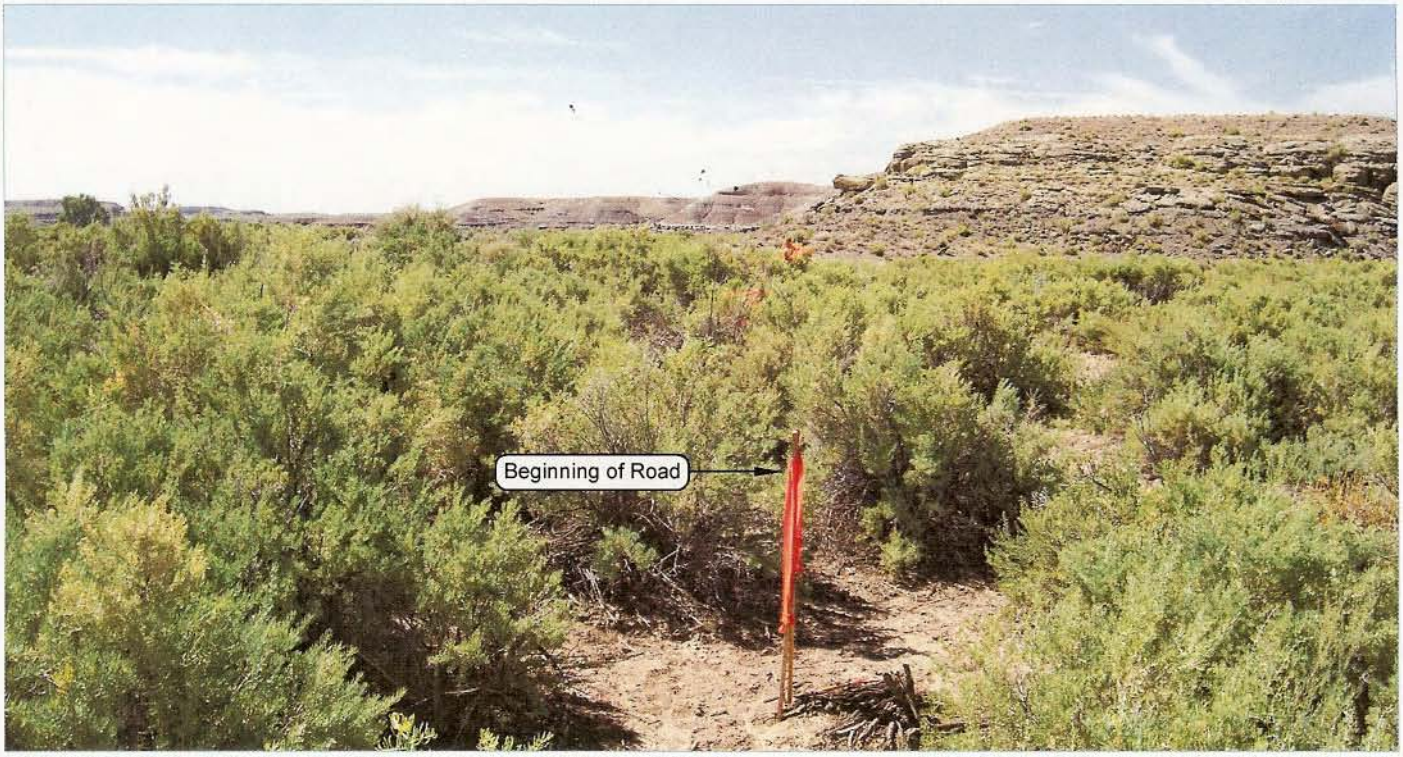


PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: SOUTHEASTERLY

Kerr–McGee
Oil & Gas Onshore, LP
1099 18th Street – Denver, Colorado 80202

NBU 920-12H
2170' FNL, 279' FEL
SE ¼ NE ¼ OF SECTION 12, T9S, R20E,
S.L.B.&M. UINTAH COUNTY, UTAH.

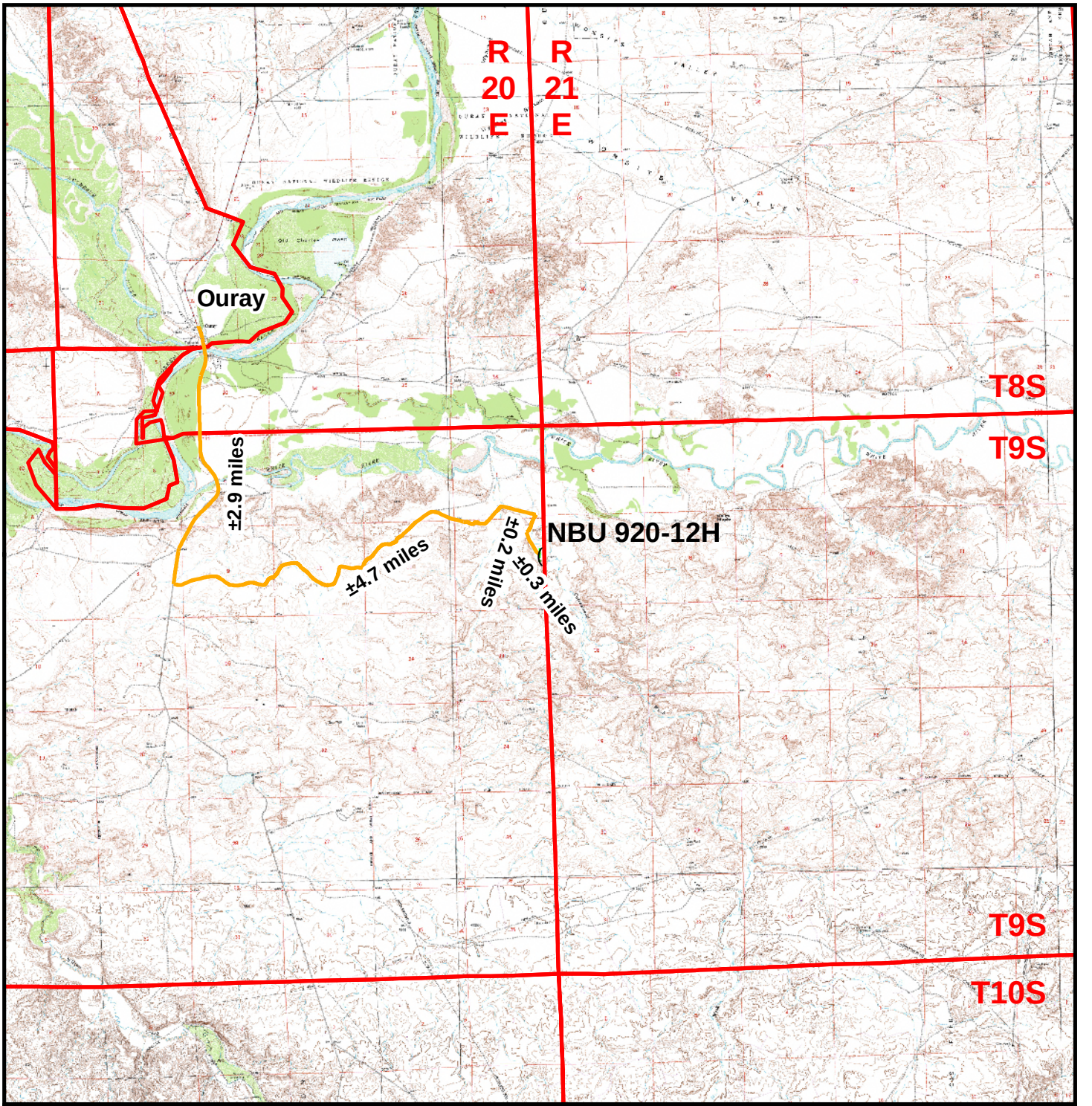
609
CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

LOCATION PHOTOS		DATE TAKEN: 07-28-08
		DATE DRAWN: 08-01-08
TAKEN BY: M.S.B.	DRAWN BY: B.R.B.	REVISED:

Timberline (435) 789–1365
Engineering & Land Surveying, Inc.
38 WEST 100 NORTH VERNAL, UTAH 84078

SHEET 4 OF 9

’APIWellNo:43047501790000’



Legend

(Proposed NBU 920-12H Well Location

Access Route - Proposed

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

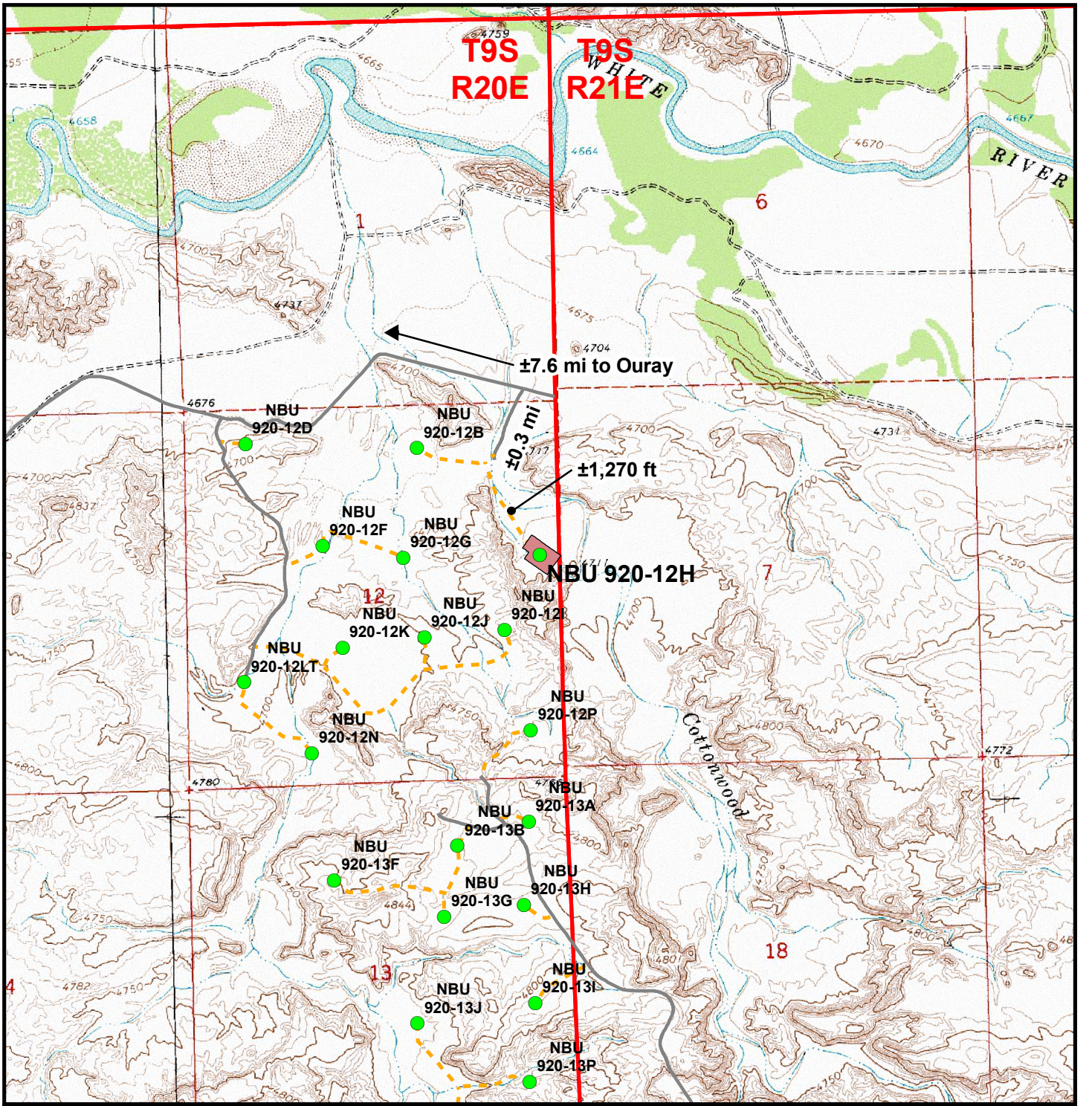
NBU 920-12H
Topo A
2170' FNL, 279' FEL
SE¼ NE¼, Section 12, T9S, R20E
S.L.B.&M., Uintah County, Utah

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

3

Scale: 1:100,000	NAD83 USP Central	Sheet No: 5	
Drawn: JELo	Date: 14 Aug 2008		5 of 9
Revised:	Date:		

'APIWellNo:43047501790000'



Legend

Well - Proposed | Well Pad | Road - Proposed | Road - Existing

Total Proposed Road Length = ±1,270 ft

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

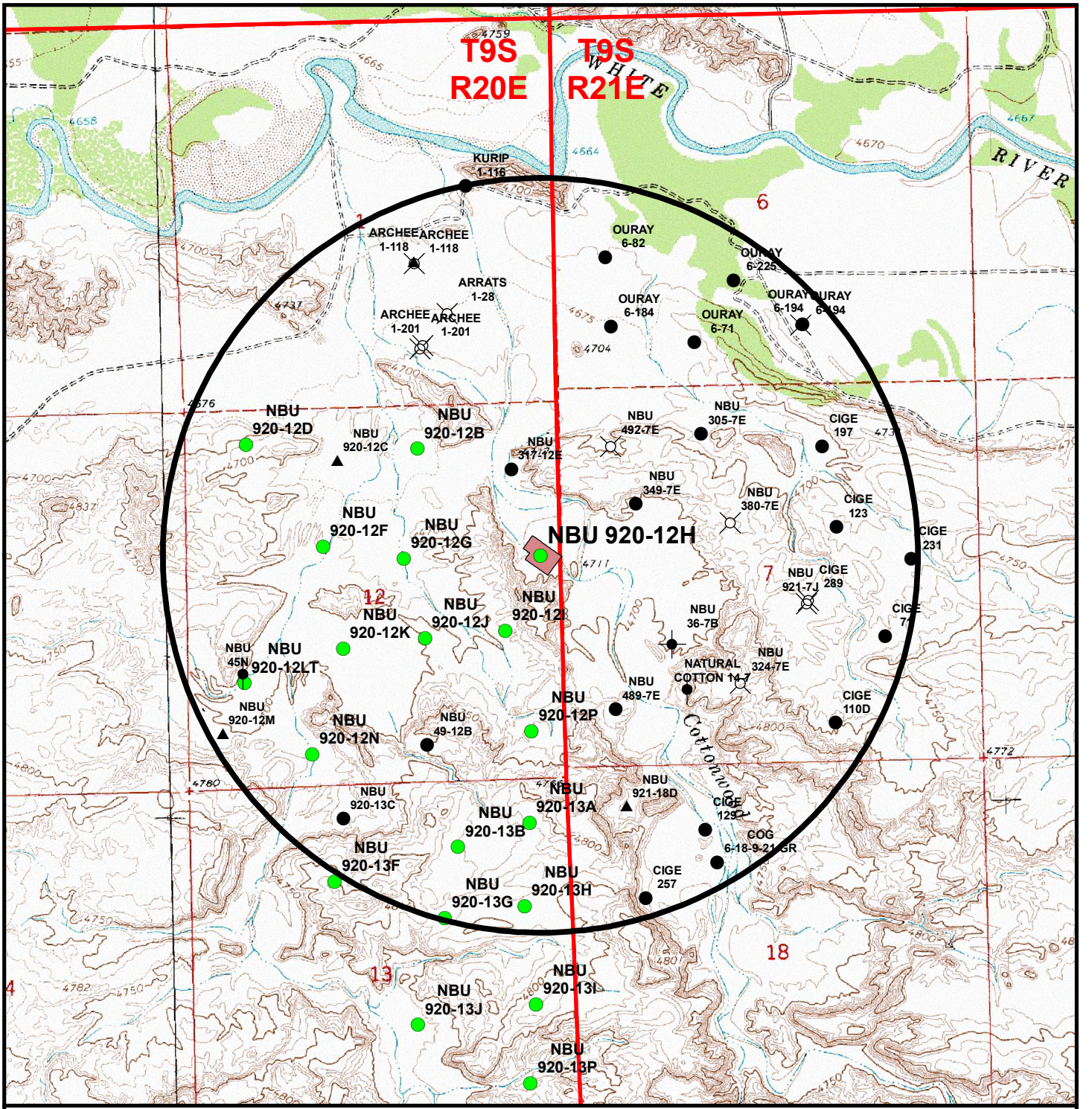
NBU 920-12H
Topo B
2170' FNL, 279' FEL
SE¼ NE¼, Section 12, T9S, R20E
S.L.B.&M., Uintah County, Utah

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

N

Scale: 1" = 2000ft	NAD83 USP Central	Sheet No: 6	
Drawn: JELo	Date: 14 Aug 2008		6 of 9
Revised:	Date:		

'APIWellNo:43047501790000'



Legend

Well locations derived from State of Utah, Dept. of Natural Resources, Division of Oil, Gas and Mining

- Well - Proposed
- Well - 1 Mile Radius
- Well Pad
- Producing
- Approved permit (APD); not yet spudded
- Spudded (Drilling commenced: Not yet comple
- Location Abandoned
- Temporarily-Abandoned
- Plugged and Abandoned
- Shut-In

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

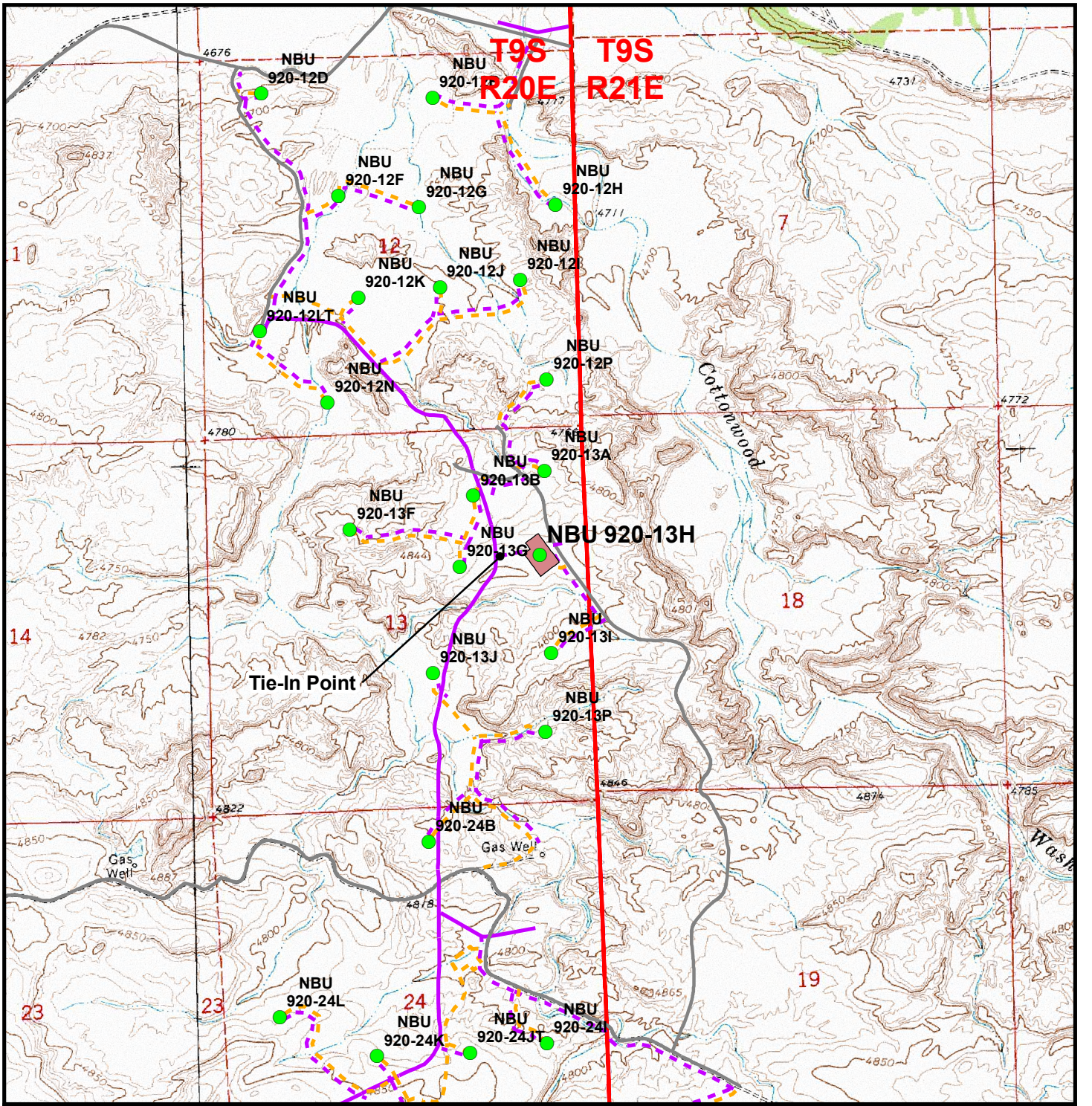
NBU 920-12H
Topo C
2170' FNL, 279' FEL
SE¼ NE¼, Section 12, T9S, R20E
S.L.B.&M., Uintah County, Utah

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

N

Scale: 1" = 2000ft	NAD83 USP Central	Sheet No: 7	
Drawn: JELo	Date: 14 Aug 2008		7 of 9
Revised:	Date:		

’APIWellNo:43047501790000’



Legend

Total Proposed Pipeline Length: ±557ft

Well - Proposed | Well Pad | Pipeline - Proposed | Road - Proposed | Pipeline - Existing | Road - Existing

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

NBU 920-13H
Topo D
1786' FNL, 658' FEL
SE¼ NE¼, Section 13, T9S, R20E
S.L.B.&M., Uintah County, Utah

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

N

Scale: 1" = 2000ft	NAD83 USP Central	Sheet No: 8	
Drawn: JELo	Date: 14 Aug 2008		8 of 9
Revised:	Date:		

Kerr-McGee Oil & Gas Onshore, LP
NBU 920-12H
Section 12, T9S, R20E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 13.9 MILES TO THE JUNCTION OF STATE HIGHWAY 88. EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION ALONG STATE HIGHWAY 88 APPROXIMATELY 16.8 MILES TO OURAY, UTAH. FROM OURAY, PROCEED IN A SOUTHERLY DIRECTION ALONG THE SEEP RIDGE ROAD (COUNTY B ROAD 2810) APPROXIMATELY 2.9 MILES TO THE INTERSECTION OF AN EXISTING ROAD TO THE EAST. EXIT LEFT AND PROCEED IN A NORTHEASTERLY DIRECTION ALONG EXISTING ROAD APPROXIMATELY 4.7 MILES TO AN EXISTING ROAD TO THE SOUTHWEST. EXIT RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION ALONG EXISTING ROAD APPROXIMATELY 0.2 MILES TO THE PROPOSED ACCESS ROAD FOR NBU 920-12B. FOLLOW 920-12B ROAD FLAGS IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 150 FEET TO THE PROPOSED ACCESS ROAD. FOLLOW ROAD FLAGS IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 1270 FEET TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 38.8 MILES IN A SOUTHERLY DIRECTION.

NBU 920-12H
SENE Sec. 12, T9S,R20E
UINTAH COUNTY, UTAH
UTU-0144868-B

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. **Estimated Tops of Important Geologic Markers:**

Formation	Depth
Uinta	0- Surface
Green River	1799'
Bird's Nest	2076'
Mahogany	2609'
Wasatch	5262'
Mesaverde	8483'
MVU2	9472'
MVL1	9971'
TD	10750'

2. **Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:**

Substance	Formation	Depth
	Green River	1799'
	Bird's Nest	2076'
	Mahogany	2609'
Gas	Wasatch	5262'
Gas	Mesaverde	8483'
Gas	MVU2	9472'
Gas	MVL1	9971'
Water	N/A	
Other Minerals	N/A	

3. **Pressure Control Equipment** (Schematic Attached)

Please see the Natural Buttes Unit Standard Operating Procedure (SOP).

4. **Proposed Casing & Cementing Program:**

Please see the Natural Buttes Unit SOP.

5. **Drilling Fluids Program:**

Please see the Natural Buttes Unit SOP.

6. **Evaluation Program:**

Please see the Natural Buttes Unit SOP.

7. Abnormal Conditions:

Maximum anticipated bottomhole pressure calculated at 10750' TD, approximately equals 6696 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 4320 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. Variances:

Please see Natural Buttes Unit SOP Onshore Order #2 – Air Drilling Variance
Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- *Blowout Prevention Equipment (BOPE) requirements;*
- *Mud program requirements; and*
- *Special drilling operation (surface equipment placement) requirements associated with air drilling.*

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background
In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12-1/4 inch hole

to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 12-1/4 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 9-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements
The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements
Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements
Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from

the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Conclusion
The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above..

10. Other Information:

Please see Natural Buttes Unit SOP.

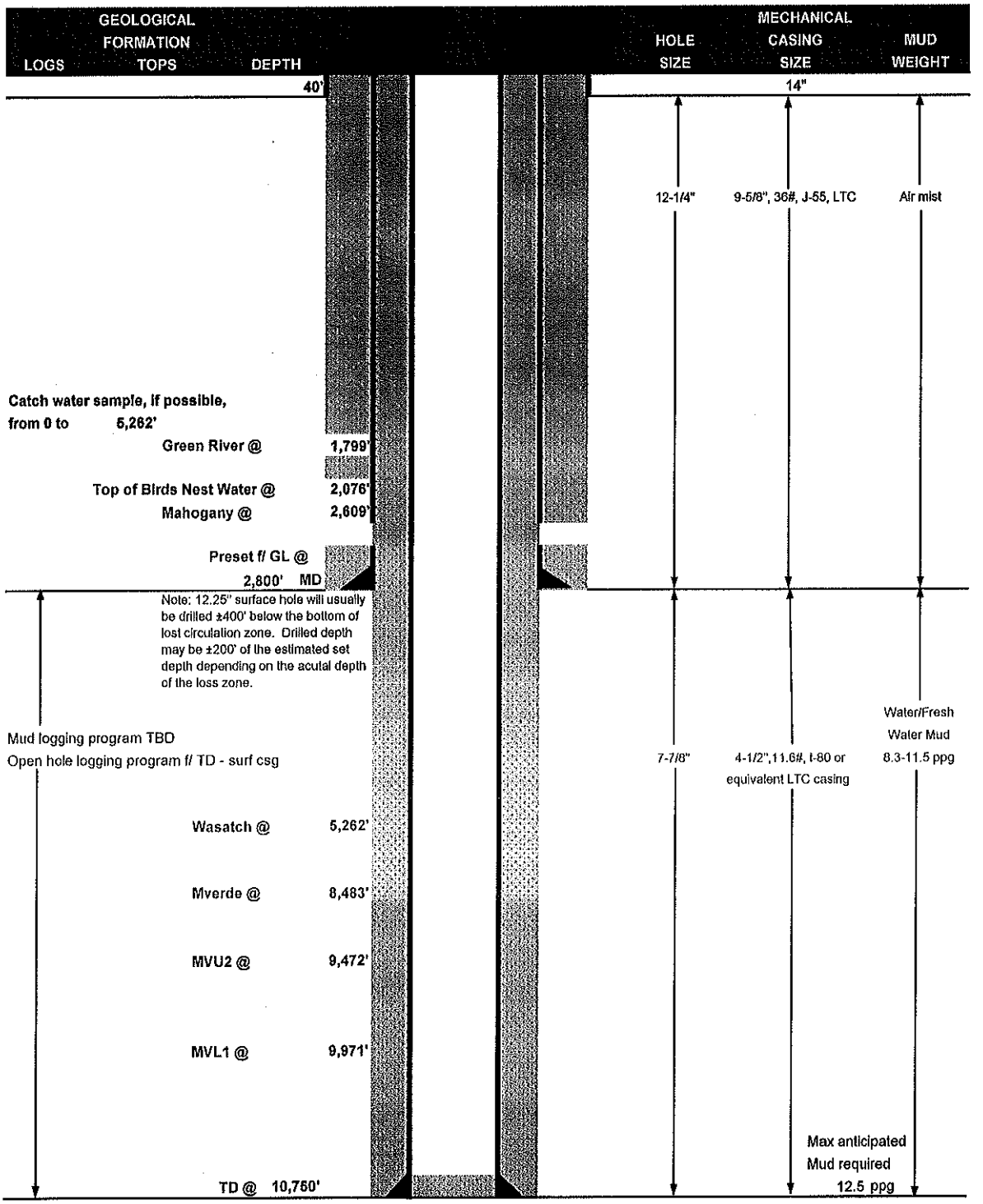
'APIWellNo:43047501790000'

KerrMcGee

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP			DATE	September 11, 2008		
WELL NAME	NBU 920-12H			TD	10,750' MD/TVD		
FIELD	Natural Buttes	COUNTY Uintah	STATE Utah	ELEVATION	4,689' GL	KB 4,704'	
SURFACE LOCATION	SENE -2170' FNL, 219' FEL, SECTION 12, T9S, R20E					BHL	Straight Hole
	Latitude: 40.051470	Longitude: -109.606290	NAD 27				
OBJECTIVE ZONE(S)	[redacted]/Mesaverde						
ADDITIONAL INFO	Regulatory Agencies: BLM (MINERALS), BIA (SURFACE), UDOGM, Tri-County Health Dept.						



KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'						
						3520	2020	453000
SURFACE	9-5/8"	0 to 2,800'	36.00	J-55	LTC	0.76	1.54	5.13
						7780	6350	201000
PRODUCTION	4-1/2"	0 to 10750	11.60	I-80	LTC	1.68	0.91	1.85

1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point)

2) MASP (Prod Casing) = Pore Pressure at TD - (.22 psi/ft-partial evac gradient x TD)

(Burst Assumptions: TD = 12.5 ppg) .22 psi/ft = gradient for partially evac wellbore

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MASP 4320 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500	Premium cmt + 2% CaCl	215	60%	15.60	1.18
Option 1			+ 25 pps flocele				
	TOP OUT CMT (1)	250	20 gals sodium silicate + Premium cmt	100		15.60	1.18
			+ 2% CaCl + .25 pps flocele				
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE			NOTE: If well will circulate water to surface, option 2 will be utilized				
Option 2	LEAD	2000	Prem cmt + 16% Gel + 10 pps gilsonite	230	35%	11.00	3.82
			+ 2# pps flocele + 3% salt BWOC				
	TAIL	500	Premium cmt + 2% CaCl	180	35%	15.60	1.18
			+ .25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	4,760'	Premium Lite II + 3% KCl + 0.25 pps	520	60%	12.50	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	5,990'	50/50 Poz/G + 10% salt + 2% gel	1670	60%	14.30	1.31
			+ 1% R-3				

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. Test to 5,000 psi (annular to 2,500 psi) prior to drilling out. Record on chart recorder & tour sheet. Function test rams on each trip. Maintain safety valve & inside BOP on rig floor at all times. Kelly to be equipped with upper & lower kelly valves.

Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

Most rigs have PVT Systems for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER: _____ **DATE:** _____

Brad Laney

DRILLING SUPERINTENDENT: _____ **DATE:** _____

Randy Bayne

IPC #08-142

Paleontological Reconnaissance Survey Report

Survey of Kerr McGee's Proposed Well Pads, Access Roads, and Pipelines for "NBU #920-12B, D, E, F, G, H, I, J & K; #920-13A, B & H" (Sec. 12 & 13, T 9 S, R 20 E)

Ouray SE
Topographic Quadrangle
Uintah County, Utah

June 28, 2008

Prepared by Stephen D. Sandau
Paleontologist for
Intermountain Paleo-Consulting
P. O. Box 1125
Vernal, Utah 84078

NBU 920-12H
SENE SEC. 12 ,T9S,R20E
UINTAH COUNTY, UTAH
UTU-0144868-B

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. **Existing Roads:**

   Refer to the attached location directions.

   Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

2. **Planned Access Roads:**

   No new access road is planned, as this is a twin location. Refer to Topo Map B.

   Existence of pipelines; maximum grade; turnouts; major cut and fills, culverts, or bridges; gates, cattle guards, fence cuts, or modifications to existing facilities were determined at the on-site.

   Please see the Natural Buttes Unit Standard Operating Procedure (SOP).

3. **Location of Existing Wells Within a 1-Mile Radius:**

   Please refer to Topo Map C.

4. **Location of Existing & Proposed Facilities:**

   Please see the Natural Buttes Unit SOP.

   Refer to Topo Map D for the location of the proposed pipelines.

   Variances to Best Management Practices (BMPs) Requested:

   This exception to the BMP should be granted by the BLM Authorized Officer because indurated bedrock, such as sandstone, is at or within 2 feet of the surface and the soil has a poor history for successful rehabilitation.

   All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The requested color is Shadow gray, a non-reflective earthtone.

   Interim Surface Reclamation Plan:

   This exception is requested due to the current twin and multi-well program. If determined that this well will not be a candidate for either twinning &/or multi-well the operator shall spread the topsoil pile on the location up to the rig anchor points. The location will be reshaped to the

original contour to the extent possible. The operator will reseed the area using the BLM recommended seed mixture and reclamation methods.

5. **Location and Type of Water Supply:**

Please see the Natural Buttes SOP.

6. **Source of Construction Materials:**

Please see the Natural Buttes SOP.

7. **Methods of Handling Waste Materials:**

Please see the Natural Buttes SOP.

A plastic reinforced liner is to be used as discussed during on-site inspection. It will be a minimum of 20 mil thick and felt, with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash or scrap that could puncture the liner will be disposed of in the pit.

Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to one of the pre-approved disposal sites: RNI, Sec. 5, T9S, R22E, NBU #159, Sec. 35, T9S R21E, Ace Oilfield, Sec. 2, T6S, R20E, MC&MC, Sec. 12, T6S, R19E, Pipeline Facility Sec. 36, T9S, R20E,Goat Pasture Evaporation Pond SW/4 Sec. 16, T10S, R22E, Bonanza Evaporation Pond Sec. 2, T10S, R23E *(Request is in lieu of filing Form 3160-5, after initial production).*

8. Ancillary Facilities:

Please see the Natural Buttes SOP.

9. Well Site Layout: (See Location Layout Diagram)

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

Location size may change prior to the drilling of the well due to the current rig availability. If the proposed location is not large enough to accommodate the drilling rig. The location will be re-surveyed and a form 3160-5 will be submitted.

10. **Plans for Reclamation of the Surface:**

Please see the Natural Buttes SOP.
Operator shall call the BIA for the seed mixture when final reclamation occurs.

11. Surface/Mineral Ownership:

The well pad and access road are located on lands owned by:

Ute Indian Tribe
P.O. Box 70
Fort Duchesne, Utah 84026
(435) 722-5141

The mineral ownership is listed below:

United States of America
Bureau of Land Management
170 South 500 East
Vernal, UT 84078
(435)781-4400

12. Stipulations/Notices/Mitigation:

There are no stipulations or notices for this location.

13. Other Information:

A Class III archaeological survey has been performed and will be submitted. Attached is the cover page for the Paleontological Report (IPC 08-142).

This location is not within 460' from the boundary of the Natural Buttes Unit, nor is it within 460' of any non-committed tract lying within the boundaries of the Unit.

14. Lessee's or Operator's Representative & Certification:

Raleen White
Sr. Regulatory Analyst
Kerr-McGee Oil & Gas Onshore LP
P.O. Box 173779
Denver, CO 80217-3779
(720) 929-6666

Randy Bayne
Drilling Manager
Kerr-McGee Oil & Gas Onshore LP
1368 South 1200 East
Vernal, UT 84078
(435) 781-7018

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under the terms and conditions of the lease for the operations conducted upon leased lands.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Indian Affairs Nationwide Bond #RLB0005239.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by the Operator, its contractors, and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

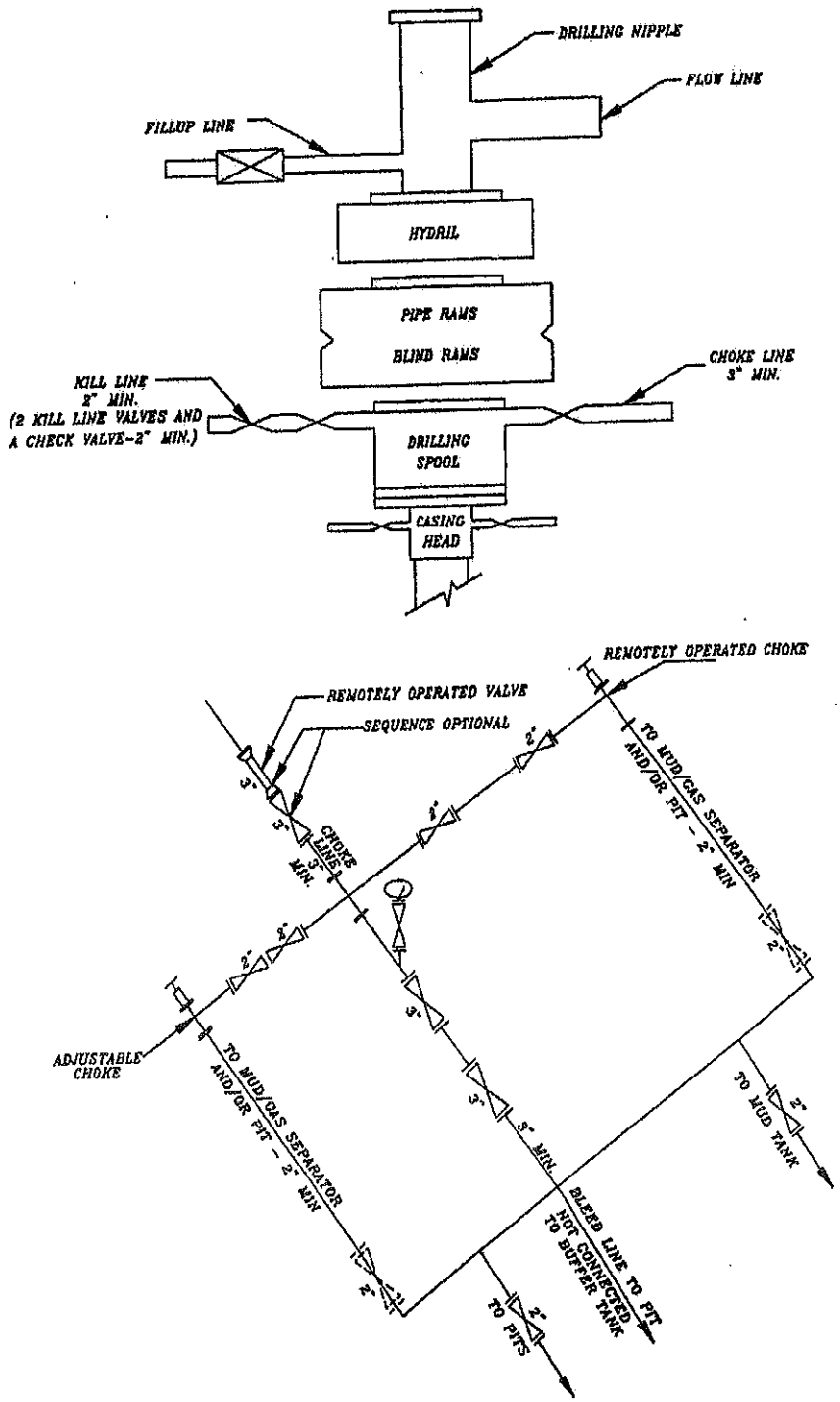
Raleen White

Raleen White

9/11/2008

Date

EXHIBIT A



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

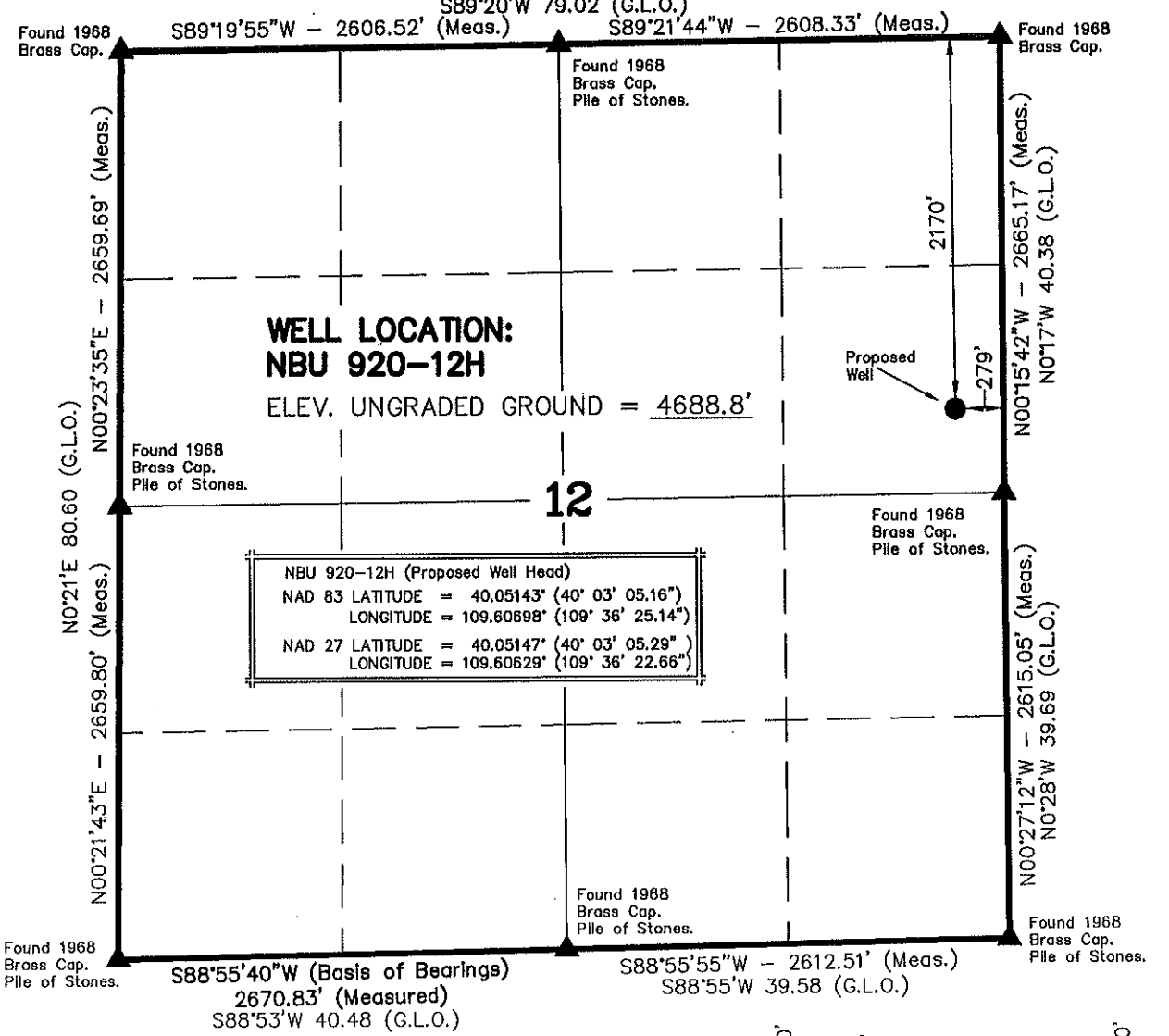
Kerr-McGee Oil & Gas Onshore, LP
NBU 920-12H
Section 12, T9S, R20E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 13.9 MILES TO THE JUNCTION OF STATE HIGHWAY 88. EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION ALONG STATE HIGHWAY 88 APPROXIMATELY 16.8 MILES TO OURAY, UTAH. FROM OURAY, PROCEED IN A SOUTHERLY DIRECTION ALONG THE SEEP RIDGE ROAD (COUNTY B ROAD 2810) APPROXIMATELY 2.9 MILES TO THE INTERSECTION OF AN EXISTING ROAD TO THE EAST. EXIT LEFT AND PROCEED IN A NORTHEASTERLY DIRECTION ALONG EXISTING ROAD APPROXIMATELY 4.7 MILES TO AN EXISTING ROAD TO THE SOUTHWEST. EXIT RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION ALONG EXISTING ROAD APPROXIMATELY 0.2 MILES TO THE PROPOSED ACCESS ROAD FOR NBU 920-12B. FOLLOW 920-12B ROAD FLAGS IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 150 FEET TO THE PROPOSED ACCESS ROAD. FOLLOW ROAD FLAGS IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 1270 FEET TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 38.8 MILES IN A SOUTHERLY DIRECTION.

'APIWellNo:43047501790000'

T9S, R20E, S.L.B.&M.



NOTES:

▲ = Section Corners Located

1. Well footages are measured at right angles to the Section Lines.
2. G.L.O. distances are shown in feet or chains. 1 chain = 66 feet.
3. Bearings are based on Global Positioning Satellite observations.
4. Basis of elevation is the Northwest Corner of Section 12, T9S, R20E, S.L.B.&M. The elevation of this Section Corner is shown on the Ouray SE 7.5 Min. Quadrangle as being 4676'.

SCALE

N

SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

STATE OF UTAH No.6028691 JOHN R. SLAUGH REGISTERED LAND SURVEYOR

JOHN R. SLAUGH
REGISTERED LAND SURVEYOR
REGISTRATION No. 6028691
STATE OF UTAH

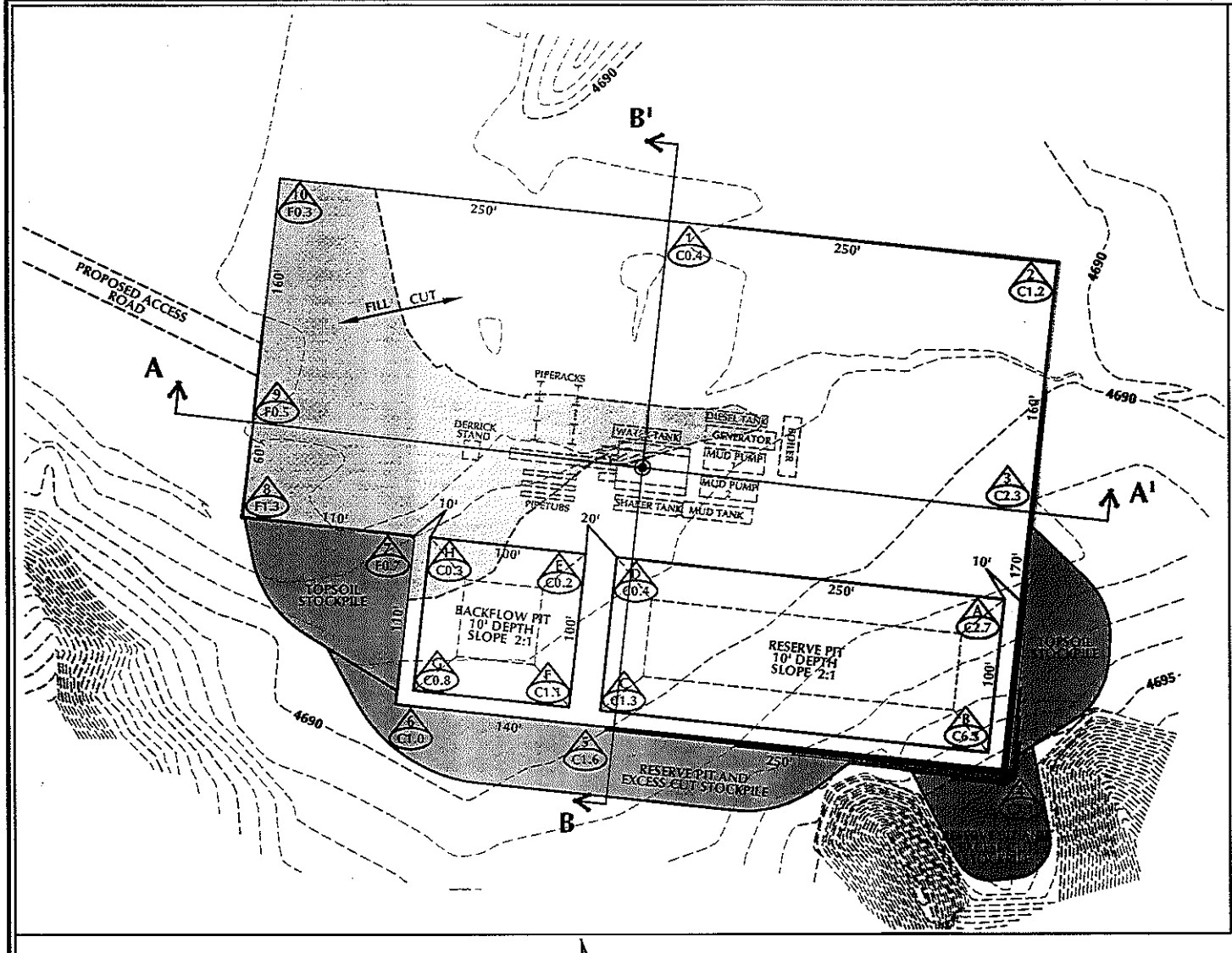
Kerr–McGee Oil & Gas Onshore, LP
1099 18th Street – Denver, Colorado 80202

NBU 920-12H
WELL PLAT
2170' FNL, 279' FEL
SE ¼ NE ¼ OF SECTION 12, T9S, R20E,
S.L.B.&M. UINTAH COUNTY, UTAH.

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
38 WEST 100 NORTH – VERNAL, UTAH 84078

DATE SURVEYED: 06-23-08	SURVEYED BY: M.S.B.	SHEET 1 OF 9
DATE DRAWN: 08-02-08	DRAWN BY: B.R.B. J.R.S.	
SCALE: 1" = 1000'	Date Last Revised:	



WELL PAD LEGEND

- WELL LOCATION
- EXISTING CONTOURS (1' INTERVAL)
- PROPOSED CONTOURS (1' INTERVAL)

WELL PAD NBU 920-12H QUANTITIES

EXISTING GRADE @ LOC. STAKE = 4,688.8'
FINISHED GRADE ELEVATION = 4,688.5'
CUT SLOPES = 1.5:1
FILL SLOPES = 1.5:1

TOTAL CUT FOR WELL PAD = 2,949 C.Y.
TOTAL FILL FOR WELL PAD = 1,279 C.Y.
TOPSOIL @ 6" DEPTH = 2,905 C.Y.
TOTAL DISTURBANCE = 3.60 ACRES
SHRINKAGE FACTOR = 1.15
SWELL FACTOR = 1.00
RESERVE PIT CAPACITY (2' OF FREEBOARD)
+/- 25,880 BARRELS
RESERVE PIT VOLUME
+/- 7,185 CY
BACKFLOW PIT CAPACITY (2' OF FREEBOARD)
+/- 8,780 BARRELS
BACKFLOW PIT VOLUME
+/- 2,520 CY

HORIZONTAL 0 50 100 1" = 100'
1' CONTOURS

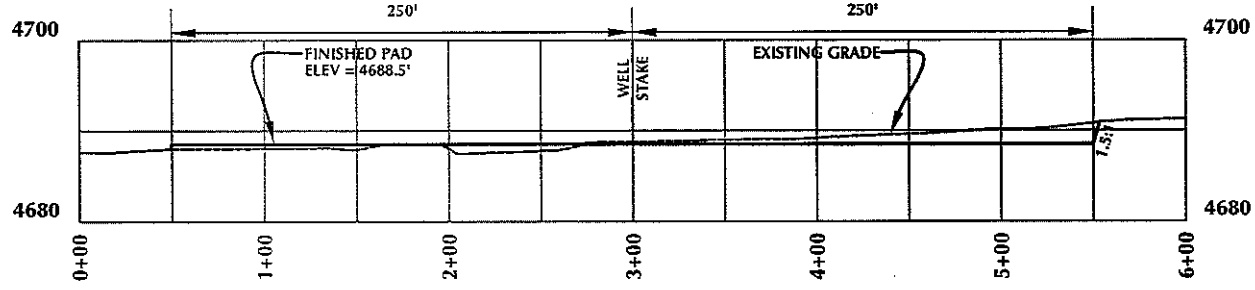
KERR-MCGEE OIL & GAS ONSHORE L.P.
1099 18th Street - Denver, Colorado 80202

NBU 920-12H
WELL PAD - LOCATION LAYOUT
2170' FNL, 279' FEL
SE1/4NE1/4, SECTION 12, T.9S., R.20E.
S.L.B.&M., UINTAH COUNTY, UTAH

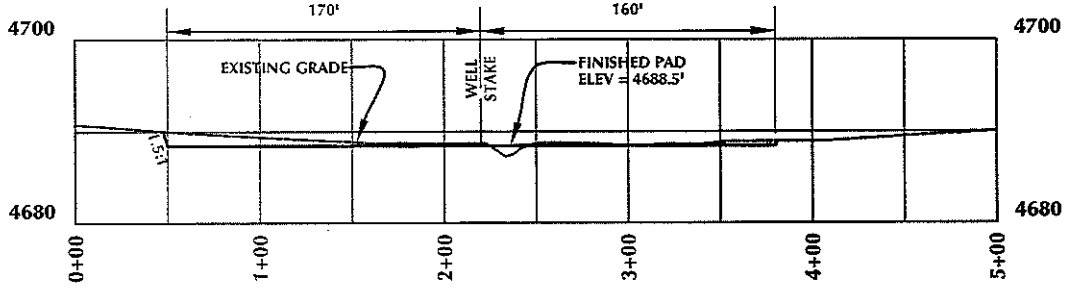
609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

Scale: 1"=100'	Date: 8/15/08	SHEET NO:
REVISED:	BY DATE	2 2 OF 9

Timberline Engineering & Land Surveying, Inc. (435) 789-1365
38 WEST 100 NORTH VERNAL, UTAH 84078



CROSS SECTION A-A'



CROSS SECTION B-B'

HORIZONTAL 0 50 100 1" = 100'

VERTICAL 0 10 20 1" = 20'

KERR-MCGEE OIL & GAS
ONSHORE L.P.
1099 18th Street - Denver, Colorado 80202

NBU 920-12H
WELL PAD - CROSS SECTIONS
2170' FNL, 279' FEL
SE1/4NE1/4, SECTION 12, T.9S., R.20E.
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

Scale: 1"=100'	Date: 8/15/08	SHEET NO: 3 3 OF 9
REVISED:	BY DATE	

Timberline Engineering & Land Surveying, Inc.
38 WEST 100 NORTH VERNAL, UTAH 84078
(435) 789-1365

'APIWellNo:43047501790000'

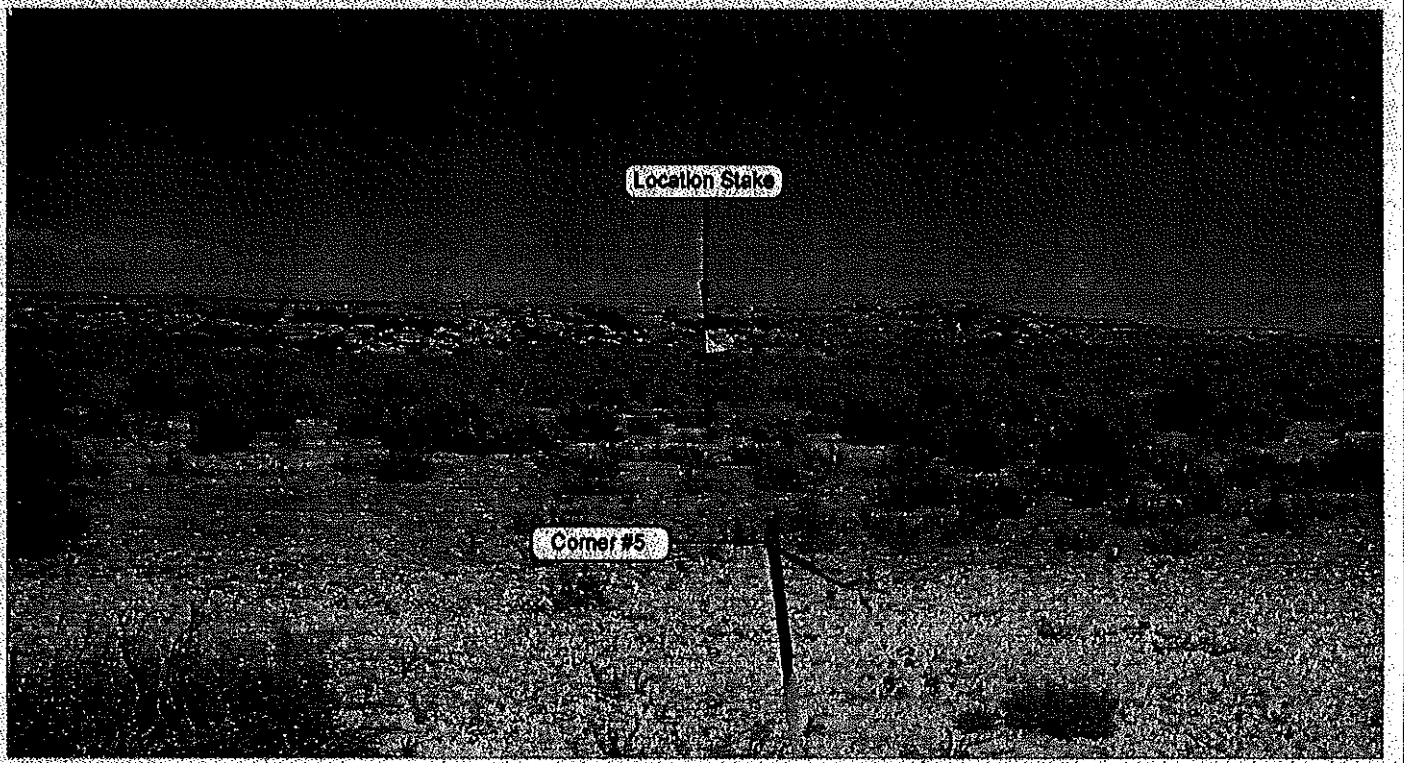


PHOTO VIEW: FROM CORNER #5 TO LOCATION STAKE CAMERA ANGLE: NORTHEASTERLY

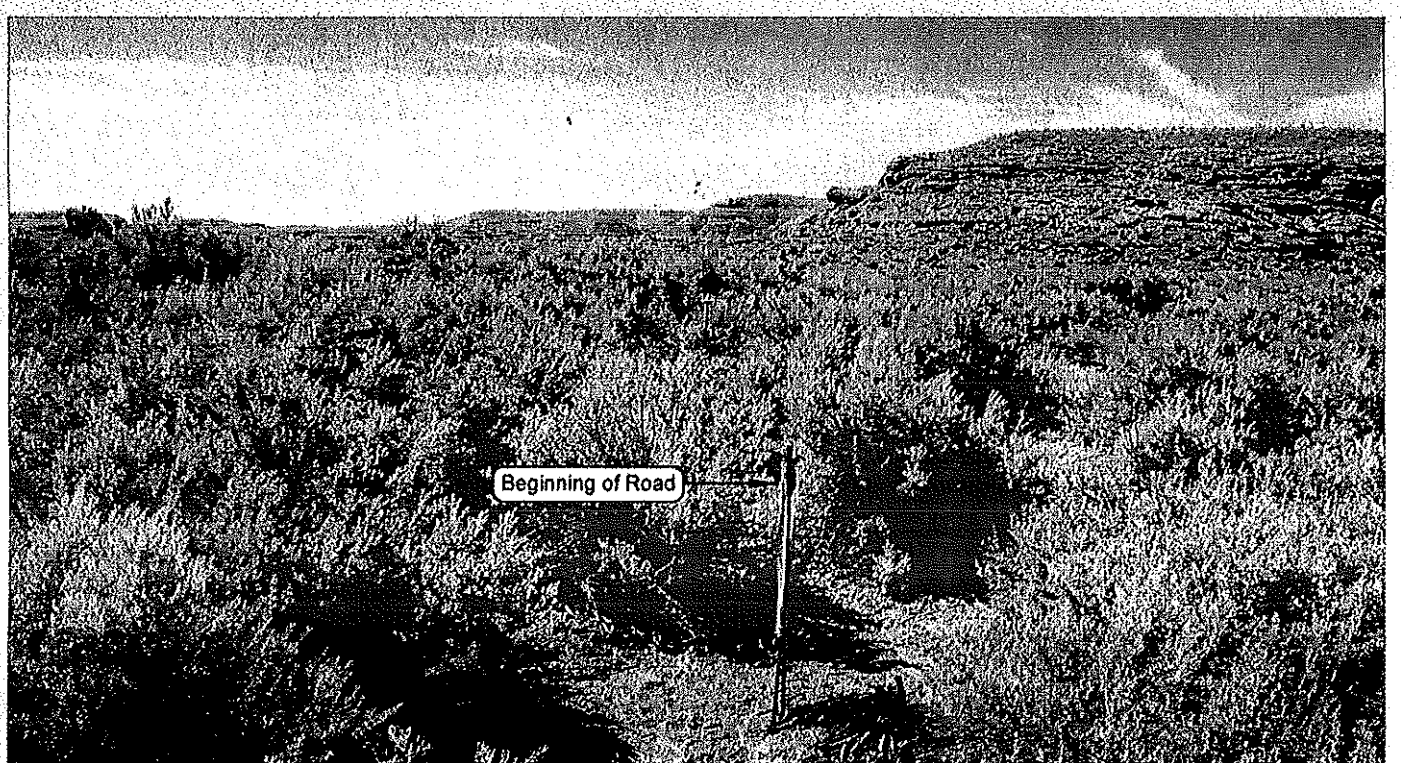


PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD CAMERA ANGLE: SOUTHEASTERLY

Kerr–McGee
Oil & Gas Onshore, LP
1099 18th Street – Denver, Colorado 80202

NBU 920-12H
2170' FNL, 279' FEL
SE ¼ NE ¼ OF SECTION 12, T9S, R20E,
S.L.B.&M. UINTAH COUNTY, UTAH.

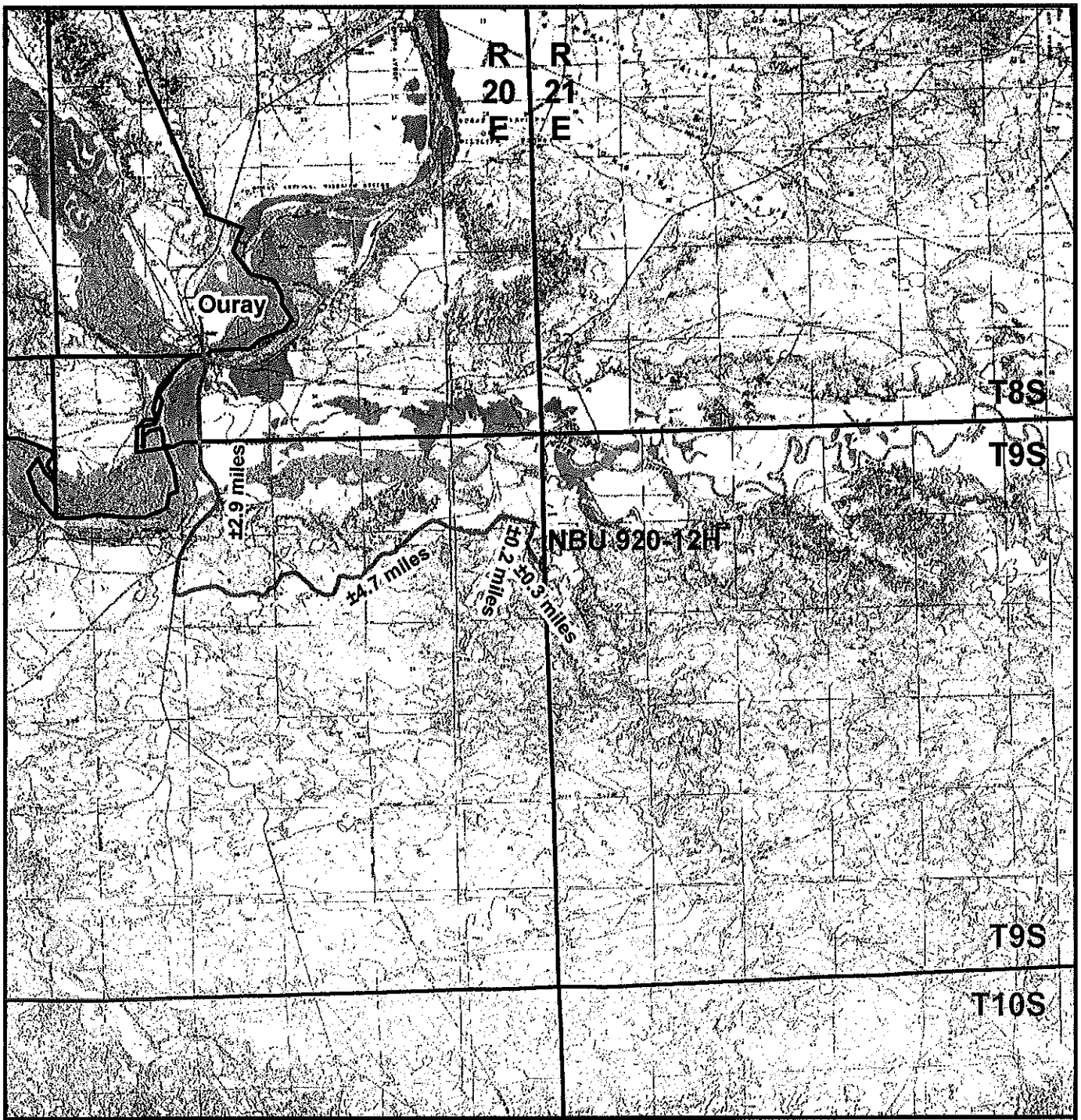
CONSULTING, LLC
371 Colfcan Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

LOCATION PHOTOS		DATE TAKEN: 07-26-06
		DATE DRAWN: 08-01-06
TAKEN BY: M.S.B.	DRAWN BY: B.R.B.	REVISED:

Timberline (435) 789-1365
Engineering & Land Surveying, Inc.
38 WEST 100 NORTH VERNAL, UTAH 84078

SHEET 4 OF 9

'APIWellNo:43047501790000'



Legend

(Proposed NBU 920-12H Well Location

Access Route - Proposed

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

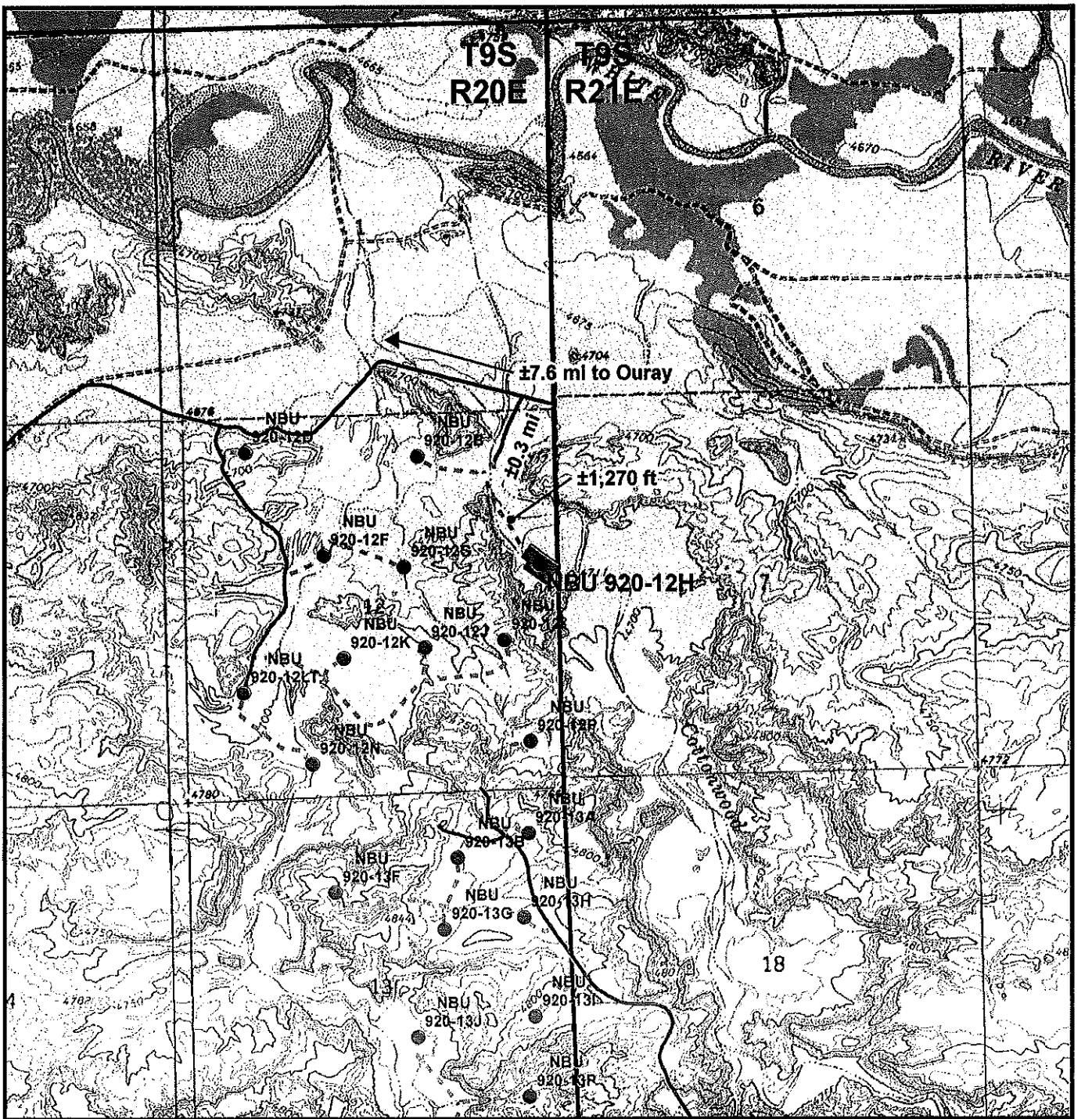
NBU 920-12H
Topo A
2170' FNL, 279' FEL
SE¼ NE¼, Section 12, T9S, R20E
S.L.B.&M., Uintah County, Utah

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

3

Scale: 1:100,000	NAD83 USP Central	Sheet No: 5	5 of 9
Drawn: JELo	Date: 14 Aug 2008		
Revised:	Date:		

'APIWellNo:43047501790000'



Legend

Total Proposed Road Length = ±1,270 ft

Well - Proposed | Well Pad | Road - Proposed | Road - Existing

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

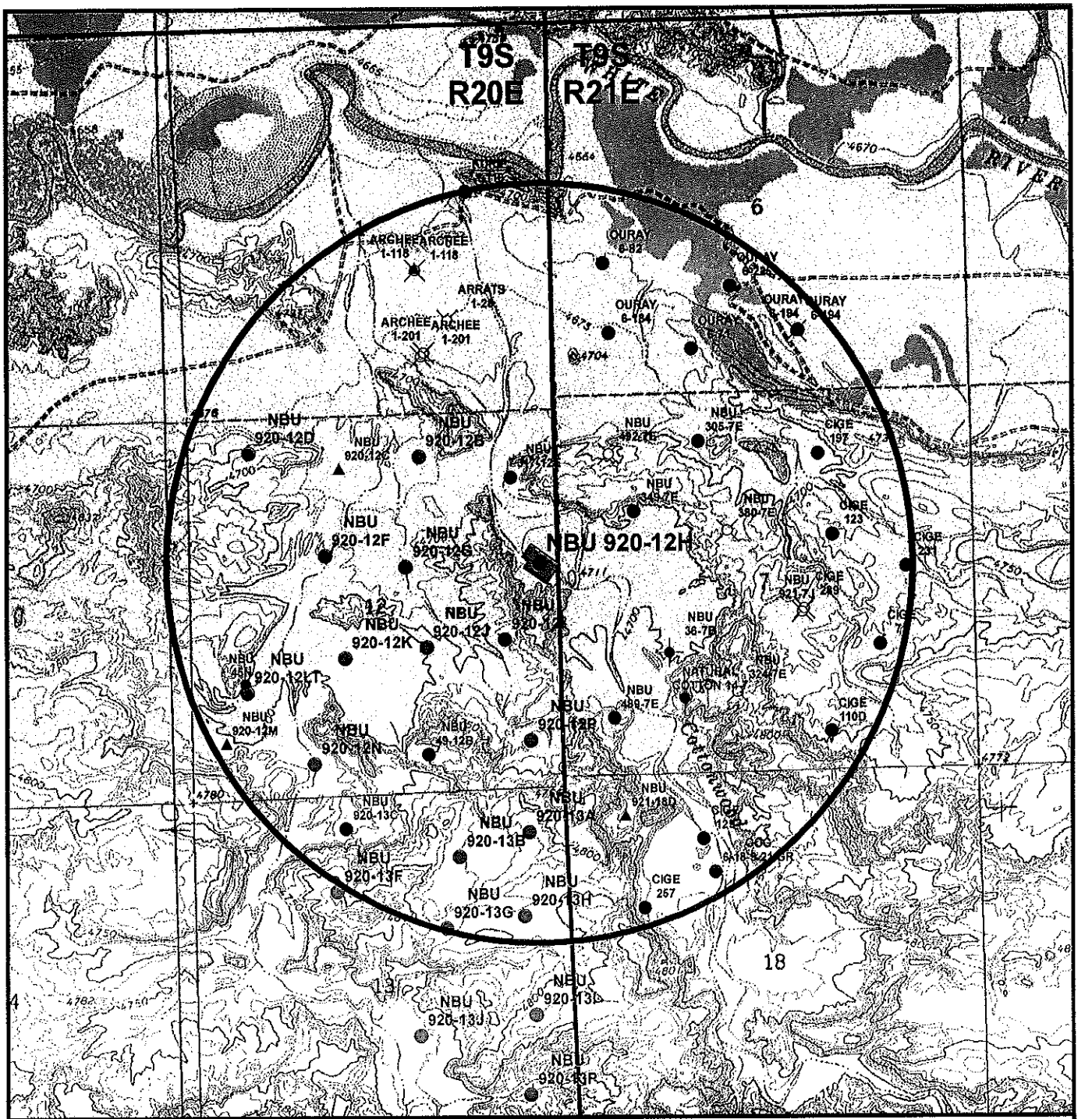
NBU 920-12H
Topo B
2170' FNL, 279' FEL
SE¼ NE¼, Section 12, T9S, R20E
S.L.B.&M., Uintah County, Utah

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

N

Scale: 1" = 2000ft	NAD83 USP Central	Sheet No: 6 of 9
Drawn: JELo	Date: 14 Aug 2008	
Revised:	Date:	

'APIWellNo:43047501790000'



Legend

Well locations derived from State of Utah, Dept. of Natural Resources, Division of Oil, Gas and Mining

- Well - Proposed
- Well - 1 Mile Radius
- Well Pad
- Producing
- Approved permit (APD); not yet spudded
- Spudded (Drilling commenced: Not yet comple
- Location Abandoned
- Temporarily-Abandoned
- Plugged and Abandoned
- Shut-In

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

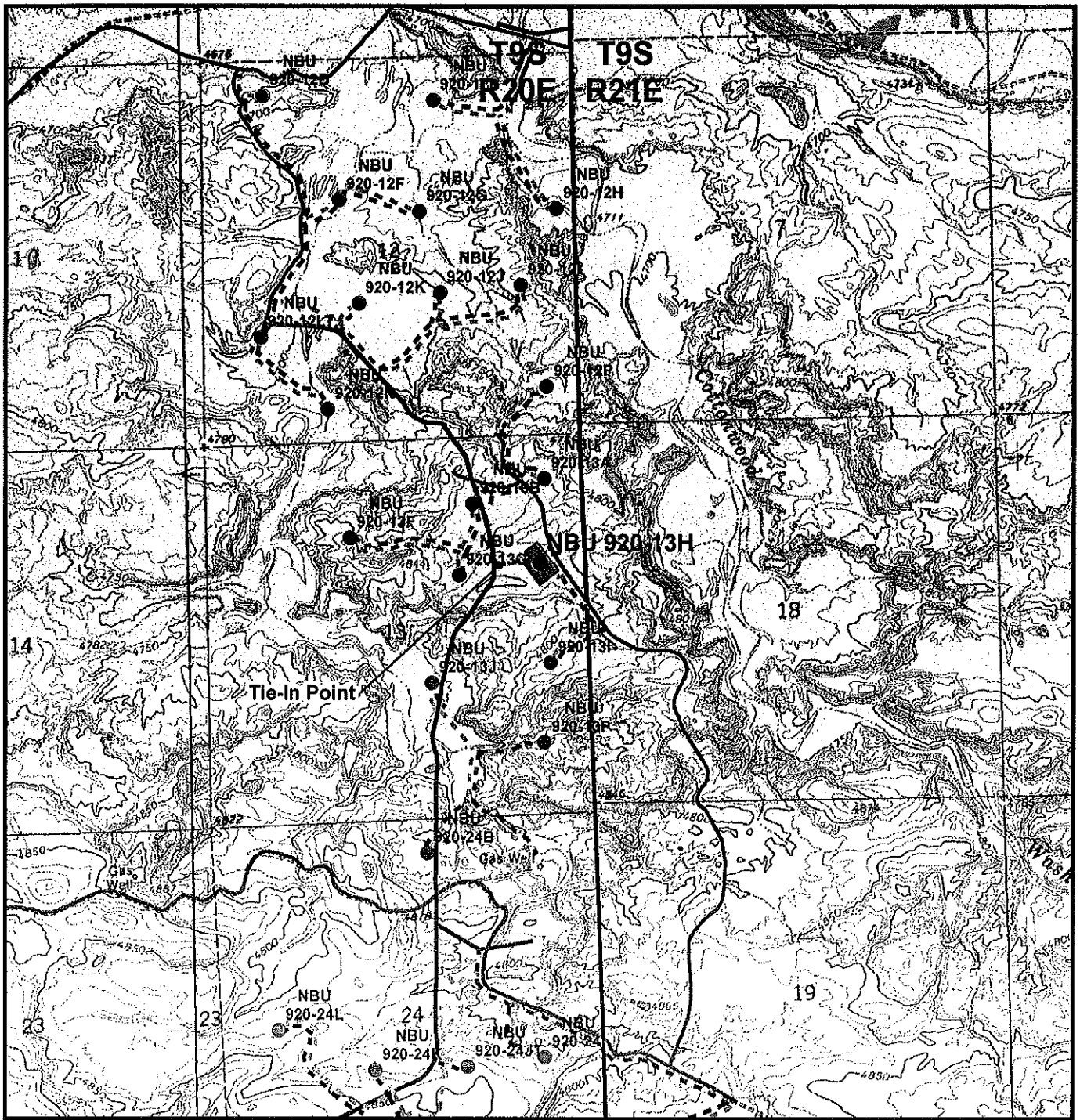
NBU 920-12H
Topo C
2170' FNL, 279' FEL
SE¼ NE¼, Section 12, T9S, R20E
S.L.B.&M., Uintah County, Utah

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

N

Scale: 1" = 2000ft	NAD83 USP Central	Sheet No: 7	7 of 9
Drawn: JELo	Date: 14 Aug 2008		
Revised:	Date:		

'APIWellNo:43047501790000'



Legend

Total Proposed Pipeline Length: ±557ft

Well - Proposed | Well Pad | Pipeline - Proposed | Road - Proposed | Pipeline - Existing | Road - Existing

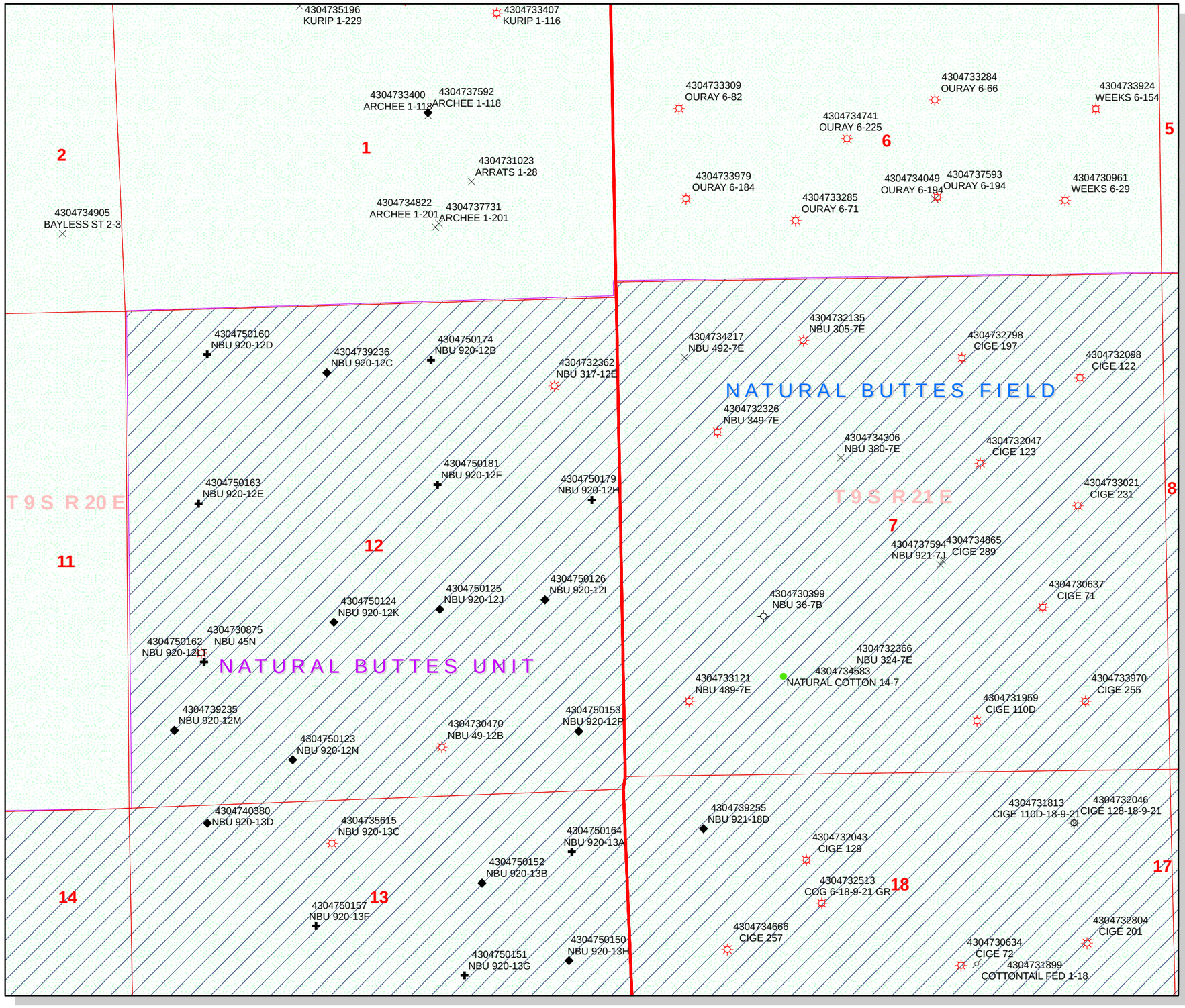
Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

NBU 920-13H
Topo D
1786' FNL, 658' FEL
SE¼ NE¼, Section 13, T9S, R20E
S.L.B.&M., Uintah County, Utah

609 CONSULTING, LLC
371 Colfeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

N

Scale: 1" = 2000ft	NAD83 USP Central	Sheet No: 8	8 of 9
Drawn: JELo	Date: 14 Aug 2008		
Revised:	Date:		



API Number: 4304750179

Well Name: NBU 920-12H

Township 09.0 S Range 20.0 E Section 12

Meridian: SLBM

Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Map Prepared:
Map Produced by Diana Mason

Units

STATUS
- ACTIVE
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Fields

STATUS
- ACTIVE
- COMBINED
- Sections
- Township

Wells Query Events
- <all other values>

GIS_STAT_TYPE
- <Null>
- APD
- DRL
- GI
- GS
- LA
- NEW
- OPS
- PA
- PGW
- POW
- RET
- SGW
- SOW
- TA
- TW
- WD
- WI
- WS
- Bottom Hole Location

1:13,066

'APIWellNo:43047501790000'

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:
3160
(UT-922)

October 14, 2008

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2008 Plan of Development Natural Buttes Unit
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2008 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESAVERDE)		
43-047-50179	NBU 920-12H	Sec 12 T09S R20E 2170 FNL 0279 FEL
43-047-50180	NBU 920-12G	Sec 12 T09S R20E 2151 FNL 2191 FEL
43-047-50181	NBU 920-12F	Sec 12 T09S R20E 1957 FNL 1922 FWL
43-047-50185	NBU 920-29A	Sec 29 T09S R20E 0616 FNL 0927 FEL
43-047-50174	NBU 920-12B	Sec 12 T09S R20E 0627 FNL 1964 FEL
43-047-50186	NBU 920-29D	Sec 29 T09S R20E 0552 FNL 0859 FWL
(Proposed PZ MESAVERDE)		
43-047-50162	NBU 920-12LT	Sec 12 T09S R20E 1538 FSL 0792 FWL
43-047-50161	NBU 920-24AT	Sec 24 T09S R20E 0709 FNL 0704 FEL

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

bcc: File – Natural Buttes Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:10-14-08

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 10/1/2008 **API NO. ASSIGNED:** 43047501790000

WELL NAME: NBU 920-12H

OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995) **PHONE NUMBER:** 720 929-6666

CONTACT: Raleen White

PROPOSED LOCATION: SENE 12 090S 200E **Permit Tech Review:** ☑

SURFACE: 2170 FNL 0279 FEL **Engineering Review:** ☑

BOTTOM: 2170 FNL 0279 FEL **Geology Review:** ☑

COUNTY: UINTAH

LATITUDE: 40.05145 **LONGITUDE:** -109.60630

UTM SURF EASTINGS: 618882.00 **NORTHINGS:** 4434188.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-0144868B **PROPOSED FORMATION:** MVRD

SURFACE OWNER: 2 - Indian **COALBED METHANE:** NO

RECEIVED AND/OR REVIEWED:

- ☑ **PLAT**
- ☑ **Bond:** FEDERAL - WYB000291
- ☐ **Potash**
- ☑ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ☑ **Water Permit:** Permit #43-8496
- ☐ **RDCC Review:**
- ☐ **Fee Surface Agreement**
- ☐ **Intent to Commingle**

LOCATION AND SITING:

- ☐ **R649-2-3.**

  Unit: NATURAL BUTTES
- ☐ **R649-3-2. General**
- ☐ **R649-3-3. Exception**
- ☑ **Drilling Unit**

  Board Cause No: Cause 173-14

  Effective Date: 12/2/1999

  Siting: 460' fr u bdry & uncomm. tract
- ☐ **R649-3-11. Directional Drill**

Comments: Presite Completed

Stipulations: 3 - Commingling - ddoucet
4 - Federal Approval - dmason
17 - Oil Shale 190-5(b) - dmason

JON M. HUNTSMAN, JR.
Governor
GARY R. HERBERT
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES
MICHAEL R. STYLER
Executive Director
Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

Permit To Drill

****

Well Name: NBU 920-12H
API Well Number: 43047501790000
Lease Number: UTU-0144868B
Surface Owner: INDIAN
Approval Date: 12/23/2008

Issued to:
KERR-MCGEE OIL & GAS ONSHORE, L.P. , P.O. Box 173779, Denver, CO 80217

Authority:
Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 173-14 .

Duration:
This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Commingle:
In accordance with Cause No. 173-14, commingling the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

General:
Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:
State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

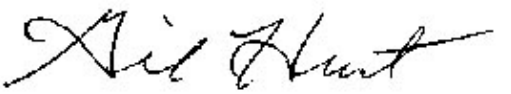
In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

Notification Requirements:
Notify the Division with 24 hours of spudding the well.
- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.
- Contact Dustin Doucet at (801) 538-5281 office (801) 733-0983 home

Reporting Requirements:
All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

Approved By:



Gil Hunt
Associate Director, Oil & Gas

Form 3160-3
(August 1999)

RECEIVED
VERNAL FIELD OFFICE
2008 SEP 18 PM 1 03
DEPT OF THE INTERIOR
BUREAU OF LAND MGMT

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0136
Expires November 30, 2000

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: [X] DRILL [ ] REENTER	5. Lease Serial No. UTU-0144868-B
b. Type of Well: [ ] Oil Well [X] Gas Well [ ] Other [ ] Single Zone [X] Multiple Zone	6. If Indian, Allottee or Tribe Name UTE TRIBE
	7. If Unit or CA Agreement, Name and No. 891008900A
	8. Lease Name and Well No. NBU 920-12H
2. Name of Operator KERR-MCGEE OIL & GAS ONSHORE LP	9. API Well No. 43-047-50179
3A. Address PO BOX 173779, DENVER, CO 80217-3779	3b. Phone No. *(include area code)* 720-929-6666
	10. Field and Pool, or Exploratory NATURAL BUTTES
4. Location of Well *(Report location clearly and in accordance with any State requirements.*)* At surface SENE 2170' FNL, 279' FEL NAD 83 LAT 40.05143/ LONG 109.60698 At proposed prod. Zone	11. Sec., T., R., M., or Blk, and Survey or Area SECTION 12, T9S, R20E, SLB&M
14. Distance in miles and direction from nearest town or post office* APPROXIMATELY 38 +/- MILES FROM VERNAL, UTAH	12. County or Parish UINTAH / 13. State UTAH

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 279'	16. No. of Acres in lease 600	17. Spacing Unit dedicated to this well NBU WELL
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1500' +/-	19. Proposed Depth 10800'	20. BLM/BIA Bond No. on file RLB0005239
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 4704' KB	22. Approximate date work will start* ASAP	23. Estimated duration 10 DAYS

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office.
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the authorized office.

25. Signature Raleen White	Name *(Printed/Typed)* RALEEN WHITE	Date 9/11/2008
Title Sr. Regulatory Analyst		
Approved by *(Signature)* Stephanie J Howard	Name *(Printed/Typed)* Stephanie J Howard	Date 9/2/09
Title Acting Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**(Instructions on reverse)*

NOS updposted 9-22-08 mc
AFMSS# 08MA0094A

RECEIVED
OCT 08 2009
DIV. OF OIL, GAS & MINING

NOTICE OF APPROVAL UDOGM

CONDITIONS OF APPROVAL ATTACHED

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE
170 South 500 East VERNAL, UT 84078 (435) 781-440(

CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	Kerr McGee Oil & Gas Onshore LP	Location:	SENE, Sec. 12, T9S R20E
Well No:	NBU 920-12H	Lease No:	UTU-0144868-B
API No:	43-047-50179	Agreement:	Natural Buttes Unit

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: ut_vn_opreport@blm.gov.
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.

- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.

- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

SITE SPECIFIC CONDITIONS OF APPROVAL

- Additional Stipulations:

- Paint facilities "shadow gray."

- Utilize pit-run/gravel for well pad and access road support.

- Construct surface pipeline according to the BLM's Hydraulic Consideration for Pipeline Crossings of Stream Channels (BLM, 2003) where it crosses the wash.

- Comply with the measures required by Nationwide Permit # 14 of the Department of Army Corps of Engineers. Which applies to linear transportation crossings (roads).

- If project construction operations are scheduled to occur after December 31, 2009, KMG will conduct additional raptor surveys in accordance with the guidelines specified in the Utah Field Office Guidelines for Raptor Protection for Human and Land Use Disturbances, 2002 and conduct its operations according to applicable seasonal restrictions and spatial offsets.

- If project construction operation are scheduled to occur after April 20, 2010, KMG will conduct additional biological surveys in accordance with the guidelines specified I the USFWS Rare Plant Conservation Measures for Uinta Basin hookless cactus and conduct its operation according to its specifications.

General Conditions of Approval:

- A 30' foot corridor right-of-way shall be approved. Upon completion of each pipeline in corridor, they shall be identified and filed with the Ute Tribe.

- A qualified Archaeologist accompanied by a Tribal Technician will monitor trenching construction of pipeline.

- The Ute Tribe Energy & Minerals Department is to be notified, in writing 48 hours prior to construction of pipeline.

- Construction Notice shall be given to the department on the Ute Tribe workdays, which are Monday through Thursday. The Company understands that they may be responsible for costs incurred by the Ute Tribe after hours.

- The Company shall inform contractors to maintain construction of pipelines within the approved ROW's.

- The Company shall assure the Ute Tribe that "ALL CONTRACTORS, INCLUDING SUB-CONTRACTORS, LEASING CONTRACTORS, AND ETC." have acquired a current and valid Ute Tribal Business License and have "Access Permits" prior to construction, and will have these permits in all vehicles at all times.

- You are hereby notified that working under the *"umbrella"* of a company does not allow you to be in the field, and can be subject to those fines of the Ute Tribe Severance Tax Ordinance.

- Any deviation of submitted APD's and ROW applications the Companies will notify the Ute Tribe and BIA in writing and will receive written authorization of any such change with appropriate authorization.

- The Company will implement "Safety and Emergency Plan." The Company's safety director will ensure its compliance.

- All Company employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APD's and/or ROW permits/authorizations on their person(s) during all phases of construction.

- All vehicular traffic, personnel movement, construction/restoration operations should be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.

- All personnel should refrain from collecting artifacts, any paleontological fossils, and from disturbing any significant cultural resources in the area.

- The personnel from the Ute Tribe Energy & Minerals Department should be notified should cultural remains from subsurface deposits be exposed or identified during construction. All construction will cease.

- All mitigative stipulations contained in the Bureau of Indian Affairs Site Specific Environmental Assessment (EA) will be strictly adhered.

- Upon completion of Application for Corridor Right-Way, the company will notify the Ute Tribe Energy & Minerals Department, so that a Tribal Technician can verify Affidavit of Completion.

DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

- Kerr McGee and their contractors shall strictly adhere to all operating practices in the SOP along with all Oil and Gas rules and requirements listed in the Code of Federal Regulations and all Federal Onshore Oil and Gas Orders except where variances have been granted.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.

- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.

- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**

- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.

- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.

- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:

    - Operator name, address, and telephone number.
    - Well name and number.
    - Well location (¼¼, Sec., Twn, Rng, and P.M.).
    - Date well was placed in a producing status (date of first production for which royalty will be paid).
    - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
    - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
    - Unit agreement and/or participating area name and number, if applicable.
    - Communitization agreement number, if applicable.

- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.

- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.

- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4.

Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.

- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.

- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.

- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.

- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.

- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

API Well No: 43047501790000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-0144868B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute In

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 920-12H

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047501790000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6007 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 2170 FNL 0279 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 12 Township: 09.0S Range: 20.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
✓ SPUD REPORT Date of Spud: 11/16/2009	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" SCHEDULE 10 PIPE. CEMENT W/28 SX READY MIX. SPUD WELL LOCATION ON 11/16/2009 AT 09:00 HRS.

Accepted by the Utah Division of Oil, Gas and Mining

FOR RECORD ONLY

November 17, 2009

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Andy Lytle	720 929-6100	Regulatory Analyst
SIGNATURE N/A		**DATE** 11/17/2009

RECEIVED November 17, 2009

API Well No: 43047501790000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-0144868B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute In

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL: Gas Well

8. WELL NAME and NUMBER: NBU 920-12H

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047501790000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6007 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 2170 FNL 0279 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 12 Township: 09.0S Range: 20.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 11/19/2009	☐ ACIDIZE	✓ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	✓ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests to change the surface casing size for this well. The surface casing size is changing FROM: 9-5/8" TO: 8-5/8". Please see the attached drilling program for additional details. If you have any questions, please contact the undersigned. Thank you.

Accepted by the Utah Division of Oil, Gas and Mining

Date: November 18, 2009

By:

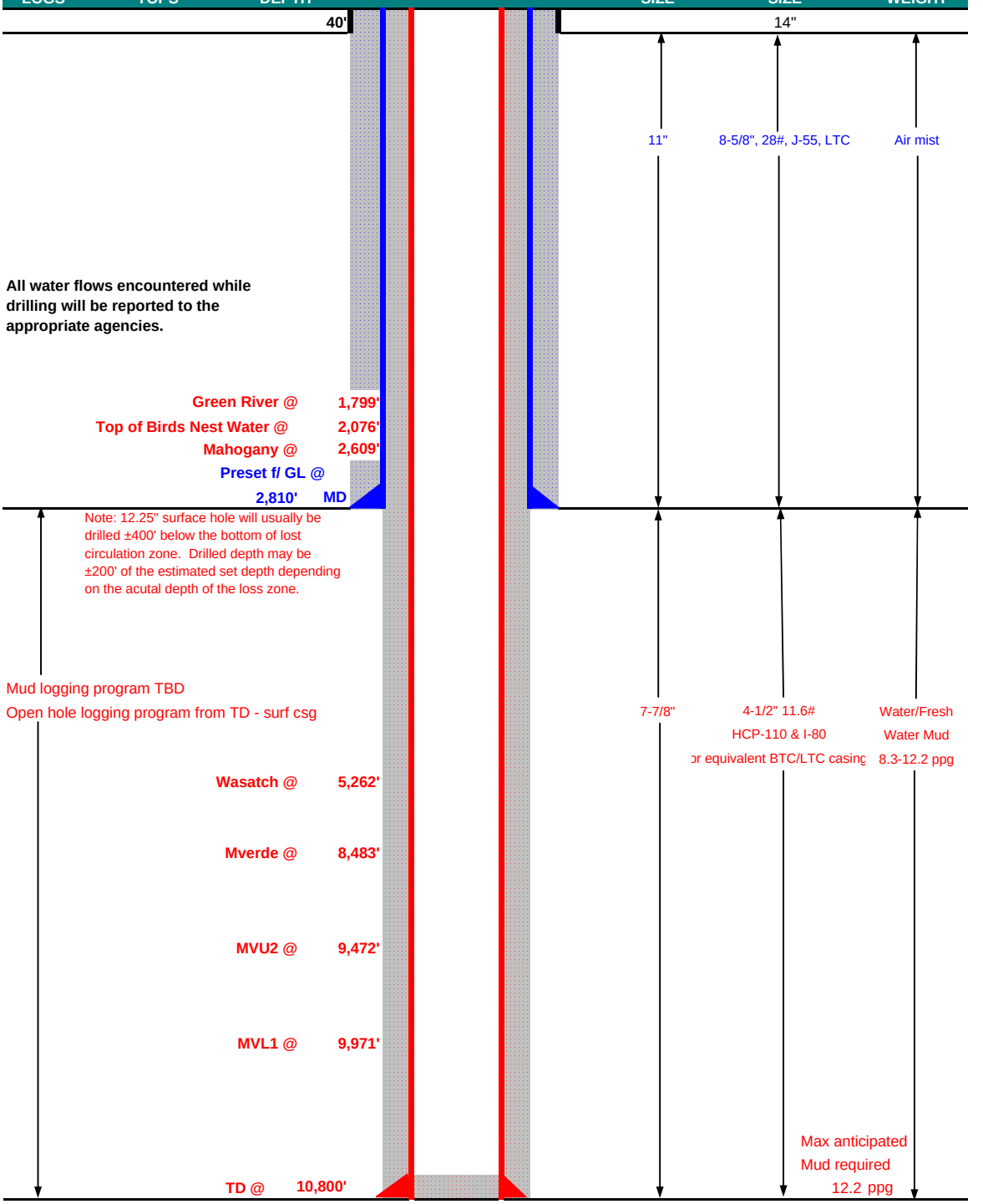
NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Danielle Piernot	720 929-6156	Regulatory Analyst
SIGNATURE		**DATE**
N/A		11/17/2009

RECEIVED November 17, 2009

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP			DATE	November 17, 2009
WELL NAME	**NBU 920-12H**			TD	10,800' MD/TVD
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah	FINISHED ELEVATION	4,689'
SURFACE LOCATION	SE/4 NE/4 2170' FNL 279' FEL	Sec 12	T 9S	R 20E		BHL	Straight Hole
	Latitude: 40.051430	Longitude:	109.606980		NAD 83		
OBJECTIVE ZONE(S)	Wasatch/Mesaverde						
ADDITIONAL INFO	Regulatory Agencies: BLM (MINERALS), Ute Tribe (SURFACE), UDOGM, Tri-County Health Dept.						



KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL			WT.	GR.	CPLG.	DESIGN FACTORS BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'								
								3,390	1,880	437,000
SURFACE	8-5/8"	0	to	2810	28.00	J-55	LTC	0.76*	1.43	5.55
								7,780	6,350	278,000
PRODUCTION	4-1/2"	0	to	9600	11.60	I-80	BTC	1.74	1.04	2.73
								10,690	8,650	279,000
		9600	to	10800	11.60	HCP-110	LTC	2.39	1.26	24.64

*Burst on suface casing is controlled by fracture gradient as shoe with gas gradient above. D.F. = 1.91

1) Max Anticipated Surf. Press.(MASP) (Surf Csg) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac grad x TVD of next csg point))

2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)
(Burst Assumptions: TD = 12.2 ppg) 0.22 psi/ft = gradient for partially evac wellbore
(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MASP 4,353 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD
(Burst Assumptions: TD = 12.2 ppg) 0.62 psi/ft = bottomhole gradient
(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MABHP 6,729 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	215	60%	15.60	1.18
Option 1			+ 0.25 pps flocele				
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	260	0%	15.60	1.18
			+ 2% CaCl + 0.25 pps flocele				
			Premium cmt + 2% CaCl				
SURFACE			**NOTE: If well will circulate water to surface, option 2 will be utilized**				
Option 2	LEAD	2,310'	Prem cmt + 16% Gel + 10 pps gilsonite	210	35%	11.00	3.82
			+ 0.25 pps Flocele + 3% salt BWOC				
	TAIL	500	Premium cmt + 2% CaCl	150	35%	15.60	1.18
			+ 0.25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	4,760'	Premium Lite II + 0.25 pps celloflake +	380	40%	11.00	3.38
			5 pps gilsonite + 10% gel '+ 1% Retarder				
	TAIL	6,040'	50/50 Poz/G + 10% salt + 2% gel	1,480	40%	14.30	1.31
			+ 0.1% R-3				

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint for a total of 15 bow spring centralizers.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

Most rigs have PVT Systems for mud monitoring. If no PVT is available, visual monitoring will be utililzed.

DRILLING ENGINEER: _____ **DATE:** _____
John Huycke / Emile Goodwin

DRILLING SUPERINTENDENT: _____ **DATE:** _____
John Merkel / Lovel Young

API Well No: 43047501790000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-0144868B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute In

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL: Gas Well

8. WELL NAME and NUMBER: NBU 920-12H

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047501790000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6007 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 2170 FNL 0279 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 12 Township: 09.0S Range: 20.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
✓ DRILLING REPORT Report Date: 11/20/2009	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU PROPETRO AIR RIG ON 11/18/2009. DRILLED 11" SURFACE HOLE TO 2830'. RAN 8-5/8" 28# J-55 SURFACE CSG. PUMP 20 BBLS GEL WATER. CMT W/220 SX CLASS G HI FILL LEAD CMT @ 11.0 PPG, 3.82 YIELD. TAILED CMT W/200 SX CLASS G PREM LITE @ 15.8 PPG, 1.15 YIELD. DROP PLUG ON FLY & DISPLACE W/172.4 BBLS 8.3# H20. 30 BBLS OF LEAD CMT TO SURFACE W/450 PSI OF LIFT @ 5 BBLS/MIN. LAND PLUG 900 PSI & CHECK FLOAT. FLOAT HELD. PUMP 100 SX CLASS G PREM LITE TOP OUT @ 15.8 PPG, 1.15 YIELD DOWN 1". 2 BBLS OF CMT TO SURFACE. CMT FELL BACK APPROX 200' WAIT 2 HR AND PUMP TOP OUT #2 W/150 SX OF SAME CMT. CMT TO SURFACE AND STAYED. WORT.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
November 23, 2009

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Andy Lytle	720 929-6100	Regulatory Analyst
SIGNATURE N/A		**DATE** 11/23/2009

RECEIVED November 23, 2009

API Well No: 43047501790000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

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6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute In

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL: Gas Well

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2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047501790000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6007 Ext

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4. LOCATION OF WELL
FOOTAGES AT SURFACE: 2170 FNL 0279 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 12 Township: 09.0S Range: 20.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 11/30/2009	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	✓ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
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	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests to change the grade of surface drilling pipe for this well. The surface pipe grade is changing FROM: J-55 LT&C TO: IJ-55 LT&C. Please see the attached drilling program for additional details. If you have any questions, please contact the undersigned. Thank you.

Accepted by the Utah Division of Oil, Gas and Mining

Date: November 25, 2009

By:

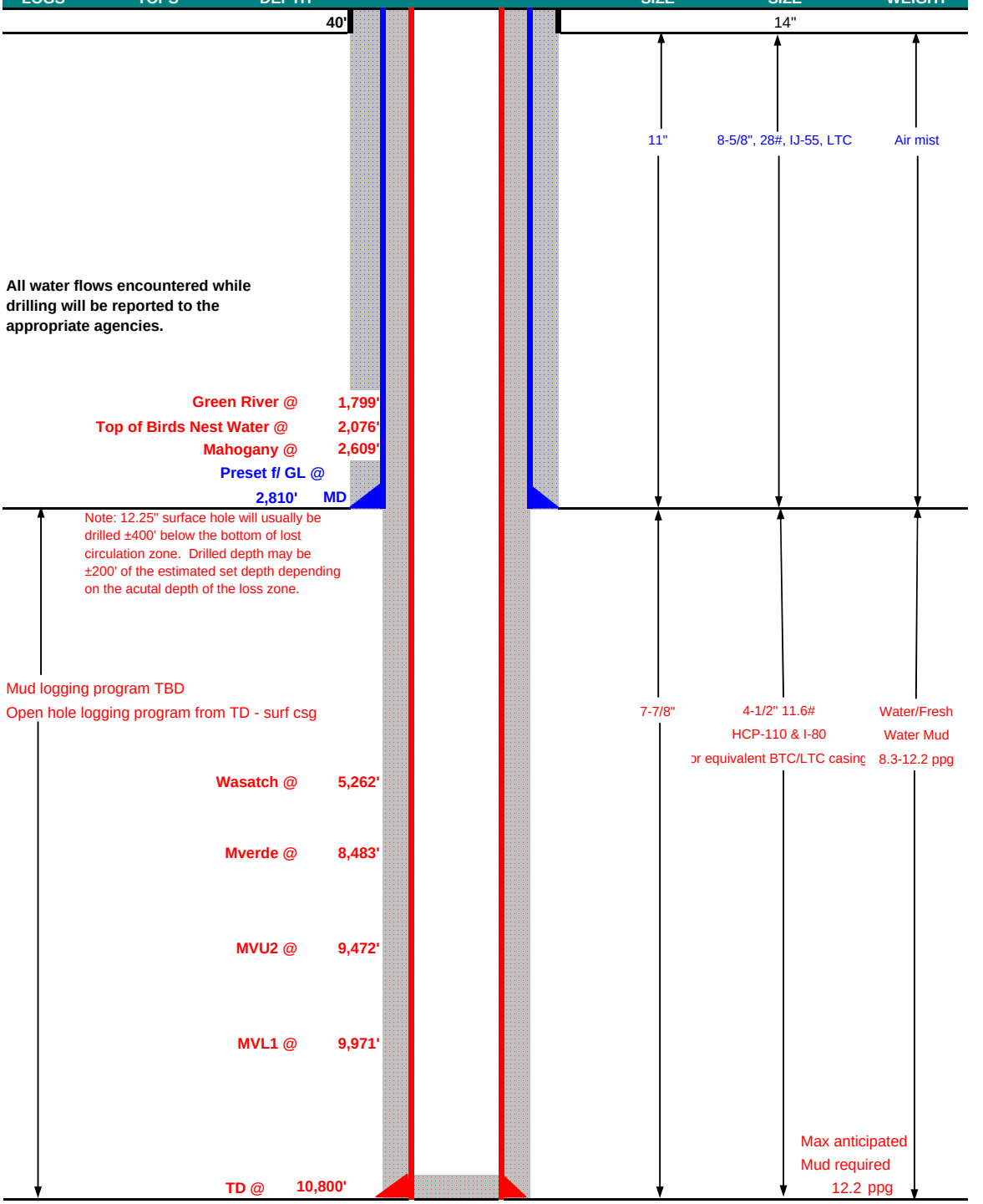
NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Danielle Piernot	720 929-6156	Regulatory Analyst
SIGNATURE		**DATE**
N/A		11/24/2009

RECEIVED November 24, 2009

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP			DATE	November 24, 2009
WELL NAME	**NBU 920-12H**			TD	10,800' MD/TVD
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah	FINISHED ELEVATION	4,689'
SURFACE LOCATION	SE/4 NE/4 2170' FNL 279' FEL	Sec 12	T 9S	R 20E		BHL	Straight Hole
	Latitude: 40.051430	Longitude:	109.606980		NAD 83		
OBJECTIVE ZONE(S)	Wasatch/Mesaverde						
ADDITIONAL INFO	Regulatory Agencies: BLM (MINERALS), Ute Tribe (SURFACE), UDOGM, Tri-County Health Dept.						



KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'						
						3,390	1,880	348,000
SURFACE	8-5/8"	0 to 2810	28.00	IJ-55	LTC	0.76*	1.43	4.42
						7,780	6,350	278,000
PRODUCTION	4-1/2"	0 to 9600	11.60	I-80	BTC	1.74	1.04	2.73
						10,690	8,650	279,000
		9600 to 10800	11.60	HCP-110	LTC	2.39	1.26	24.64

*Burst on suface casing is controlled by fracture gradient as shoe with gas gradient above. D.F. = 1.91

1) Max Anticipated Surf. Press.(MASP) (Surf Csg) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac grad x TVD of next csg point))

2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)
(Burst Assumptions: TD = 12.2 ppg) 0.22 psi/ft = gradient for partially evac wellbore
(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MASP 4,353 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD
(Burst Assumptions: TD = 12.2 ppg) 0.62 psi/ft = bottomhole gradient
(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MABHP 6,729 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	215	60%	15.60	1.18
Option 1			+ 0.25 pps flocele				
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	310	0%	15.60	1.18
			+ 2% CaCl + 0.25 pps flocele				
			Premium cmt + 2% CaCl				
SURFACE			**NOTE: If well will circulate water to surface, option 2 will be utilized**				
Option 2	LEAD	2,310'	Prem cmt + 16% Gel + 10 pps gilsonite	210	35%	11.00	3.82
			+ 0.25 pps Flocele + 3% salt BWOC				
	TAIL	500	Premium cmt + 2% CaCl	150	35%	15.60	1.18
			+ 0.25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	4,760'	Premium Lite II + 0.25 pps celloflake +	380	40%	11.00	3.38
			5 pps gilsonite + 10% gel '+ 1% Retarder				
	TAIL	6,040'	50/50 Poz/G + 10% salt + 2% gel	1,480	40%	14.30	1.31
			+ 0.1% R-3				

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained
*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint for a total of 15 bow spring centralizers.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

Most rigs have PVT Systems for mud monitoring. If no PVT is available, visual monitoring will be utililzed.

DRILLING ENGINEER: _____ **DATE:** _____
John Huycke / Emile Goodwin

DRILLING SUPERINTENDENT: _____ **DATE:** _____
John Merkel / Lovel Young

SUBMIT AS EMAIL | Print Form

BLM - Vernal Field Office - Notification Form

Operator ANADARKO Rig Name/# PIONEER 69
Submitted By BRAD PEDERSEN Phone Number 435-828-0982
Well Name/Number NBU 920-12H
Qtr/Qtr SE/NE Section 12 Township 9S Range 20E
Lease Serial Number UTU O149868-B
API Number 4304750179

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time _____ _____ AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☐ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☐ Liner
- ☐ Other

Date/Time _____ _____ AM ☐ PM ☐

BOPE

- ☑ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

Date/Time 11/23/2010 06:00 AM ☑ PM ☐

Remarks TIME IS APPROXAMATE

RECEIVED
NOV 2 2 2010
DIV. OF OIL, GAS & MINING

RECEIVED
DIV. OF OIL, GAS & MINING

Carol Daniels - PROD. CASING/CEMENT NOTICE

From: "Anadarko - Pioneer 69"
To:
Date: 12/4/2010 4:23 PM
Subject: PROD. CASING/CEMENT NOTICE
CC:

PROD. CASING AND CEMENT NOTICE
ANADARKO
NBU 920-12H
API # 47-047-50179 T09S R20E S-12
12/6/2010

THANKS
DALTON KING
435-828-0982

API Well No: 43047501790000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

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5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-0144868B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute In

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 920-12H

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047501790000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6007 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 2170 FNL 0279 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 12 Township: 09.0S Range: 20.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 12/6/2010	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

FINISHED DRILLING FROM 2830' TO 10,850' ON DECEMBER 4, 2010. RAN 4 ½" 11.6# I-80 PRODUCTION CSG. PUMP 40 BBLS SPACER, LEAD CEMENT W/ 684 SX CLASS G PREM LITE @ 13.1 PPG, 1.73 YD. TAILED CEMENT W/ 1217 SX CLASS G 50/50 POZ MIX @ 14.3 PPG, 1.31 YD. DISPLACED W/ 167.7 BBLS CLAYTREAT WATER. PLUG DOWN. CIRC 25 BBLS CEMENT TO SURFACE. FINAL CIRC 3370 PSI, BUMPED PLUG W/ 3970 PSI. PRESSURE HELD 5 MIN. RETURNED 2 BBL TO TRUCK. RD CEMENTERS AND CLEANED PITS. RELEASED PIONEER RIG #69 ON DECEMBER 6, 2010 @ 19:30 HRS.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
12/8/2010

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Gina Becker	720 929-6086	Regulatory Analyst II
SIGNATURE N/A		**DATE** 12/7/2010

RECEIVED December 07, 2010

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER:
UTU-0144868B

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Ute In

7.UNIT or CA AGREEMENT NAME:
NATURAL BUTTES

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
NBU 920-12H

2. NAME OF OPERATOR:
KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER:
43047501790000

3. ADDRESS OF OPERATOR:
P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER:
720 929-6515 Ext

9. FIELD and POOL or WILDCAT:
NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
2170 FNL 0279 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: SENE Section: 12 Township: 09.0S Range: 20.0E Meridian: S

COUNTY:
UINTAH

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 3/15/2011	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	✓ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE SUBJECT WELL WAS PLACED ON PRODUCTION ON MARCH 15, 2011 AT 2:00 P.M. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.

Accepted by the Utah Division of Oil, Gas and Mining

FOR RECORD ONLY

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Gina Becker	720 929-6086	Regulatory Analyst II
SIGNATURE		**DATE**
N/A		3/16/2011

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. UTU0144868B

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other _____

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No. UTU63047A

2. Name of Operator KERR MCGEE OIL & GAS ONSHORE, Contact: GINA T. BECKER
E-Mail: gina.becker@anadarko.com

8. Lease Name and Well No. NBU 920-12H

3. Address POBOX 173779
DENVER, CO 80217

3a. Phone No. (include area code)
Ph: 720-929-6086

9. API Well No. 43-047-50179

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface SENE 2170FNL 279FEL 40.051434 N Lat, 109.606981 W Lon

At top prod interval reported below SENE 2170FNL 279FEL 40.051434 N Lat, 109.606981 W Lon

At total depth SENE 2170FNL 279FEL 40.051434 N Lat, 109.606981 W Lon

10. Field and Pool, or Exploratory NATURAL BUTTES

11. Sec., T., R., M., or Block and Survey or Area Sec 12 T9S R20E Mer SLB

12. County or Parish UINTAH

13. State UT

14. Date Spudded 11/16/2009

15. Date T.D. Reached 12/04/2010

16. Date Completed ☐ D & A ☒ Ready to Prod. 03/15/2011

17. Elevations (DF, KB, RT, GL)* 4704 GL

18. Total Depth: MD 10850 TVD 10847

19. Plug Back T.D.: MD 10793 TVD 10790

20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
CBL-CHI TRIPLE COMBO-BHP-HDIL/ZDL/CNGR

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☒ No ☐ Yes (Submit analysis)

23. Casing and Liner Record *(Report all strings set in well)*

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STL	36.7		40		28			
11.000	8.625 IJ-55	28.0		2826		670		0	
7.875	4.500 I-80	11.6		9575		1901		270	
7.875	4.500 P110	11.6	9575	10832					

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	9994							

25. Producing Intervals

Formation	Top	Bottom
A) MESAVERDE	8480	10586
B) WSMVD		
C)		
D)		

26. Perforation Record

Perforated Interval	Size	No. Holes	Perf. Status
8480 TO 10586	0.360	184	OPEN

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
8480 TO 10586	PUMP 11,092 BBLS SLICK H20 & 396,419 LBS SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
03/15/2011	03/19/2011	24	→	0.0	2256.0	652.0			FLOWS FROM WELL

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
20/64	1900	2750.0	→	0	2256	652		PGW

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

RECEIVED
APR 27 2011
DIV. OF OIL, GAS & MINING

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #106640 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

29. Disposition of Gas *(Sold, used for fuel, vented, etc.)*
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
GREEN RIVER	1769				
BIRD'S NEST	2051				
MAHOGANY	2710				
WASATCH	5283	8459			
MESAVERDE	8459	10850			

32. Additional remarks (include plugging procedure):
Attached is the chronological well history & final survey. Completion chrono details individual frac stages.

33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd.)
2. Geologic Report
3. DST Report
4. Directional Survey
5. Sundry Notice for plugging and cement verification
6. Core Analysis
7 Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #106640 Verified by the BLM Well Information System.
For KERR MCGEE OIL & GAS ONSHORE,L, sent to the Vernal

Name *(please print)* GINA T. BECKER Title REGULATORY ANALYST

Signature (Electronic Submission) Date 04/18/2011

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fradulent statements or representations as to any matter within its jurisdiction.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

US ROCKIES REGION

Operation Summary Report

Well: NBU 920-12H	Spud Conductor: 11/16/2009	Spud Date: 11/18/2009
Project: UTAH-UINTAH	Site: NBU 920-12H	Rig Name No: PIONEER 69/69, PROPETRO/
Event: DRILLING	Start Date: 11/15/2009	End Date: 12/6/2010
Active Datum: RKB @4,722.00ft (above Mean Sea Level)	UWI: SE/NE/0/9/S/20/E/12/0/0/26/PM/N/2,170.00/E/0/279.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
11/18/2009	16:00 - 18:00	2.00	MAINT	23	A	P		PEFORM INSPECTION OF COLLARS AND OVERHEAD INSPECTION. 1 CRACKED 8", SEVERAL BAD FACES, ALL SUBS OK. 1 BAD LIFTING HOOK, 1 CRACKED PIN ON P-TONGS, 1 CRACKED LIFTING EYE. REPLACE EQUIPMENT. MOVE IN RIG.
	18:00 - 21:30	3.50	MIRU	01	B	P		DRESS CONDUCTOR, INSTALL AIR BOWL AND BOWIE LINE, RIG UP RIG, RIG UP PUMPS, RIG UP ALL SAFETY. P/U AIR HAMMER
	21:30 - 23:00	1.50	DRLSUR	02	A	P		AIR SPUD 11/18/2009 21:30, AIR HAMMER 44'-120'.
	23:00 - 0:00	1.00	DRLSUR	06	A	P		LD AIR HAMMER P/U NEW MOTOR 1.5 DEG BENT HOUSE MOTOR .16 RPG 7/8 LOBE, P/U Q507 W/ 7-18'S,
11/19/2009	0:00 - 2:00	2.00	DRLSUR	06	A	P		M/U NEW BIT ON MOTOR. P/U 8" DRILL COLLARS. PRIME PUMPS.
	2:00 - 15:30	13.50	DRLSUR	02	D	P		DRILL 120'-1840' (1720', 127'/HR) WOB 18K RPM 45, MOTOR RPM 104, GPM 650, ON/OFF PSI- 1300/1600, UP/DOWN/ROT= 58/54/52 4K DRAG.
	15:30 - 16:00	0.50	DRLSUR	10	A	P		WIRELINE SURVEY 1780'= 3/4 DEGREES. INC ONLY.
	16:00 - 0:00	8.00	DRLSUR	02	D	P		DRILL 1840'-2500' (660', 82'/HR) WOB 20K RPM 45, MOTOR RPM 104, GPM 650, ON/OFF PSI- 1500/1850, UP/DOWN/ROT= 75/68/72 FULL CIRC. CIRC RESERVE PIT
11/20/2009	0:00 - 5:00	5.00	DRLSUR	02	B	P		DRILL 2500'- 2830' (330', 66'/HR) TD 11/20/2009 05:00 WOB 22K RPM 45, MOTOR RPM 104, GPM 650, ON/OFF PSI- 1600/1900 UP/DOWN/ROT= 78/70/75 FULL CIRC. CIRC RESERVE PIT
	5:00 - 6:00	1.00	CSG	05	F	P		CIRC AND CLEAN HOLE, W/ AERATED WATER, CIRC WITH OUT AIR ON LAST CIRC.
	6:00 - 6:30	0.50	DRLSUR	10	A	P		WIRELINE SURVEY 2770'= 1.25 DEG. INC. ONLY.
	6:30 - 10:00	3.50	CSG	06	D	P		LDDS, LD BHA.
	10:00 - 13:30	3.50	CSG	12	C	P		RUN 64 JTS OF 8-5/8" 28# IJ-55 CSG W/ LTC 8RD THREADS. LAND @ 2812' KB, BAFFLE PLATE RAN IN TOP OF SHOE JT @ 2864'. FILL CSG 1000' AND 2000'. RUN 200' OF 1" DOWN BACK SIDE.
	13:30 - 14:00	0.50	RDMO	01	E	P		RIG DOWN READY TO MOVE, RELEASE RIG 11/20/2009 15:00
	14:00 - 17:30	3.50	CSG	12	E	P		TEST LINES TO 2000' PSI, PUMP 130 BBLS OF H20 , PUMP 20 BBLS OF GEL WATER. PUMP 220 (149.7 BBLS) SX OF 11#, 3.82 YD, 23 GAL SX HI FILL LEAD CEMENT. PUMP 200 SX (41.2 BBLS) OF 15.8#, 1.15 YD, 5 GAL/SK TAIL CEMENT, DROP PLUG ON FLY AND DISPLACE W/ 172.4 BBLS OF 8.3# H20, 30 BBLS OF LEAD TO SURFACE W/ 450 PSI OF LIFT @ 5 BBLS/MIN. LAND PLUG 900 PSI AND CHECK FLOAT. FLOAT HELD. PUMP 100 SX (20.1 BBLS) OF 4% CALC 15.8# 1.15 YD, 5 GAL/SK CEMENT DOWN 1" 2 BBLS OF CEMENT TO SURFACE. CEMENT FELL BACK APPROX 200'. WAIT 2 HR AND PUMP 150 SX (30.2 BBLS) OF SAME CEMENT. CEMENT TO SUFACE AND STAYED.
11/22/2010	6:00 - 12:00	6.00	RDMO	01	E	P		RDRT,LOAD OUT TRUCKS MOVE 5.5 MILES

US ROCKIES REGION

Operation Summary Report

Well: NBU 920-12H	Spud Conductor: 11/16/2009	Spud Date: 11/18/2009	
Project: UTAH-UINTAH	Site: NBU 920-12H		Rig Name No: PIONEER 69/69, PROPETRO/
Event: DRILLING	Start Date: 11/15/2009		End Date: 12/6/2010
Active Datum: RKB @4,722.00ft (above Mean Sea Level)	UWI: SE/NE/0/9/S/20/E/12/0/0/26/PM/N/2,170.00/E/0/279.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	12:00 - 0:00	12.00	RDMO	01	B	P		SET IN SUB, PONY SUB, BOAT, CARRIER, PITS PUMPS, FUEL TANK, LP, BOILER ACCUMULATORS, R/U HYDRAULICS, AIR, RAISE SUB & DERRICK, R/U ELECTRICAL, WATER, 60% RIGGED UP , 4 BED TRUCKS, 5 HAUL TRUCKS,2 FORKLIFTS ON LOCATION @ 08:00 TRUCKS RELEASED @ 17:00, CRANE RELEASED @ 18:30, 2 EXTRA RIG HANDS
11/23/2010	0:00 - 16:00	16.00	MIRU	01	B	P		RURT, PITS, PUMPS, BOILER,GAS BUSTER ,FLARE LINES, FLOOR, P/U KELLY & MISC
	16:00 - 21:00	5.00	MIRU	14	A	P		NIPPLE UP BOP,INSTALL KELLY SPINNERS & TORQUE KELLY
	21:00 - 0:00	3.00	MIRU	15	A	P		S/M W/ B & C QUICK TEST, R/U & TEST FLOOR VALVES, UPPER & LOWER KELLY VALVES, INSIDE & OUT SIDE KILL LINE VALVES & CHOKE VALVE, HCR VALVE, CHOKE MANIFOLD, PIPE & BLIND RAMS 250 PSI/5 MIN, 5000 PSI/ 10 MIN
11/24/2010	0:00 - 2:30	2.50	MIRU	15	A	P		FINISH TESTING BOP ANNULAR 250 PSI F/5 MIN,5000PSI F/ 10/MIN, CASING 1500 PSI F/ 30 MIN, INSTALL WEAR RING
	2:30 - 8:00	5.50	MIRU	06	A	P		S/M W/ KIMZEY R/U & P/U Q506 BIT, .20 RPG/1.5 BEND INTEQ MOTOR, DIR TOOLS ORIENT,11 DCS, 3 HWDP & 84JTS OF DP TO 2655'
	8:00 - 9:00	1.00	MIRU	06	A	P		RD KIMSEY LAYDOWN TRUCK
	9:00 - 10:00	1.00	MIRU	01	B	P		PU THE KELLY. INSTALL THE ROTATING HEAD AND DRIVE BUSHING.
	10:00 - 12:30	2.50	DRLPRO	02	F	P		TAGGED CEMENT AT 2770' DRILL CEMENT AND FLOAT COLLAR
	12:30 - 13:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	13:00 - 13:30	0.50	DRLPRO	02	F	P		DRILL CEMENT AND SHOE
	13:30 - 18:00	4.50	DRLPRO	02	B	P		DRILL F/ 2844'-3297', 453'/4.5HR 100.7'/HR', 18-22K WOB, RPM/50-55, MMRPM/91, SPM 120, GPM 454, UP/SO/ROT 95/90/93, ON/OFF 1540/1080, DIFF 300-500, STARTED MUD UP @ 3220' VIS/34 WT/9.2
	18:00 - 0:00	6.00	DRLPRO	02	B	P		DRILL F/ 3297'-3758', 461'/6HR 76.8'/HR', 18-22K WOB, RPM/50-55, MMRPM/91, SPM 120, GPM 454, UP/SO/ROT 100/95/98, ON/OFF 1685/1275, DIFF 300-500, VIS/36 WT/9.6 SLID 10' @ 360 AZM.
11/25/2010	0:00 - 6:00	6.00	DRLPRO	02	B	P		DRILL F/ 3758'-4181', 423'/6HR 70.5'/HR', 18-22K WOB, RPM/50-55, MMRPM/91, SPM/120, GPM/454, UP/SO/ROT 108/100/102, ON/OFF 1685/1275, DIFF/300-500, VIS/36 WT/9.6
	6:00 - 17:00	11.00	DRLPRO	02	B	P		DRILL F/ 4181'-5066', 885'/11HR 80.5'/HR', 18-22K WOB, RPM/50-55, MMRPM/91, SPM 120, GPM 454, UP/SO/ROT 118/112/115, ON/OFF 1825/1400, DIFF/300-500, VIS/36 WT/10.1 SLID 10' @ 360 AZM.
	17:00 - 17:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	17:30 - 0:00	6.50	DRLPRO	02	B	P		DRILL F/ 5066'-5603', 537'/6.5HR 82.6'/HR', 18-22K WOB, RPM/50-55, MMRPM/91, SPM/120, GPM 454, UP/SO/ROT 125/110/119, ON/OFF 2060/1670, DIFF/300-500, VIS/36 WT/10.1 SLID 10' @ 360 AZM.
11/26/2010	0:00 - 0:30	0.50	DRLPRO	02	B	P		DRILL F/ 5603'- 5649', 46'/.5HR 92'/HR', 18-22K WOB, RPM/50-55, MMRPM/91, SPM/120, GPM 454, UP/SO/ROT 125/110/119, ON/OFF 2060/1670, DIFF/300-400, VIS/36 WT/10.4
	0:30 - 1:00	0.50	DRLPRO	08	B	Z		CHANGE SWAB #2 PUMP
	1:00 - 6:00	5.00	DRLPRO	02	B	P		DRILL F/ 5649'-6014', 365'/5HR 73'/HR', 20-22K WOB, RPM/50-55, MMRPM/91, SPM/120, GPM 454, UP/SO/ROT 130/120/130, ON/OFF 1980/1640, DIFF/300-350, VIS/38 WT/10.8

US ROCKIES REGION

Operation Summary Report

Well: NBU 920-12H	Spud Conductor: 11/16/2009	Spud Date: 11/18/2009
Project: UTAH-UINTAH	Site: NBU 920-12H	Rig Name No: PIONEER 69/69, PROPETRO/
Event: DRILLING	Start Date: 11/15/2009	End Date: 12/6/2010
Active Datum: RKB @4,722.00ft (above Mean Sea Level)	UWI: SE/NE/0/9/S/20/E/12/0/0/26/PM/N/2,170.00/E/0/279.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	6:00 - 11:00	5.00	DRLPRO	02	B	P		DRILL F/ 6014'-6362',348'/5HR 69.6'/HR', 20-22K WOB, RPM/50-55, MMRPM/91, SPM/120, GPM 454, UP/SO/ROT 145/135/140, ON/OFF 2020/1700, DIFF/300-450, VIS/38 WT/10.9 LOST 85 BBL. @ 6394'
	11:00 - 11:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	11:30 - 0:00	12.50	DRLPRO	02	B	P		DRILL F/ 6362'-7003', 641'/12.5HR 51.3'/HR', 21-24K WOB, RPM/50-55, MMRPM/91, SPM/120, GPM 454, UP/SO/ROT 152/135/145, ON/OFF 2100/1690, DIFF/300-500, VIS/38 WT/10.7
11/27/2010	0:00 - 6:00	6.00	DRLPRO	02	A	P		DRILL F/ 7003'-7280',277'/16HR 46.2'/HR, 21-24K WOB, RPM/50-55, MMRPM/91, SPM/120, GPM 454, UP/SO/ROT 158/140/152, ON/OFF 2100/1690, DIFF/300-450, VIS/38 WT/10.7
	6:00 - 12:00	6.00	DRLPRO	02	B	P		DRILL F/ 7280'-7501',221'/6HR 36.8'/HR, 21-24K WOB, RPM/50-55, MMRPM/91, SPM/120, GPM 454, UP/SO/ROT 162/145/155, ON/OFF 2075/1755, DIFF/300-400, VIS/39 WT/10.9 SLOUGHING SHALE
	12:00 - 12:30	0.50	DRLPRO	07	A	P		RIG SERVICE WORK PIPE RAMS
	12:30 - 0:00	11.50	DRLPRO	02	B	P		DRILL F/ 7501'-7807',306'/11.5HR 26.6'/HR, 16-22K WOB, RPM/40-45, MMRPM/87, SPM/115, GPM 435, UP/SO/ROT 165/150/157, ON/OFF 2185/1910, DIFF/200-300, VIS/40 WT/11.2 SLOUGHING SHALE/BIT BALLING
11/28/2010	0:00 - 6:00	6.00	DRLPRO	02	B	P		DRILL F/ 7807'-7944',137'/6HR 22.8'/HR, 16-22K WOB, RPM/40-45, MMRPM/87, SPM/115, GPM 435, UP/SO/ROT 165/150/157, ON/OFF 2185/1910, DIFF/200-300, VIS/40 WT/11.4 SLOUGHING SHALE/BIT BALLING
	6:00 - 17:00	11.00	DRLPRO	02	B	P		DRILL F/ 7944'-8134',190'/11HR 17.3'/HR, 16-22K WOB, RPM/40-45, MMRPM/87, SPM/115, GPM 435, UP/SO/ROT 168/155/160, ON/OFF 2090/1890, DIFF/200-300, VIS/40 WT/11.7, MADE 2 ATTEMPTS TO GET A GOOD SLIDE 20' TOTAL, SLOUGHING SHALE/BIT BALLING
	17:00 - 17:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	17:30 - 0:00	6.50	DRLPRO	02	B	P		DRILL F/ 8134'-8243',109'/6.5HR 16.8'/HR, 16-22K WOB, RPM/40-45, MMRPM/87, SPM/115, GPM 435, UP/SO/ROT 170/155/162, ON/OFF 2090/1890, DIFF/200-300, VIS/40 WT/11.8, BIT BALLING ISSUES, LOOSING APP. 180 -200 BBL/DAY
11/29/2010	0:00 - 6:30	6.50	DRLPRO	02	B	P		DRILL F/ 8243'-8355',112'/6.5HR,17.2'/HR, 16-22K WOB, RPM/40-45, MMRPM/87, SPM/115, GPM 435, UP/SO/ROT 170/155/162, ON/OFF 2090/1890, DIFF/200-300, VIS/40 WT/12.0, BIT BALLING ISSUES, LOOSING APP. 180 -200 BBL/DAY
	6:30 - 7:00	0.50	DRLPRO	05	C	P		CIRCULATED F/ A BIT TRIP AND PUMP A 60 BBL. 14# SLUG
	7:00 - 13:00	6.00	DRLPRO	06	A	P		TOH W/ BIT #1 AND L/D THE .20 MUD MOTOR
	13:00 - 19:30	6.50	DRLPRO	06	A	P		P/U THE .16 MUD MOTOR, SCRIBE THE DIRECTIONAL ASSEMBLY AND TIH. BROKE CIRC @ THE SHOE AND 6000'.
	19:30 - 20:30	1.00	DRLPRO	03	D	P		P/U THE KELLY, BROKE CIRCULATION AND REAMED 60' TO BOTTOM NO FILL.
	20:30 - 0:00	3.50	DRLPRO	02	B	P		DRILL F/ 8355'-8460',105'/3.5HR,30'/HR, 17-21K WOB, RPM/40-45, MMRPM/67, SPM/110, GPM 416, UP/SO/ROT 170/155/167, ON/OFF 2100/1890, DIFF/200-300, VIS/40 WT/12.1, LOOSING APP. 10 BBL/HR

US ROCKIES REGION

Operation Summary Report

Well: NBU 920-12H	Spud Conductor: 11/16/2009	Spud Date: 11/18/2009
Project: UTAH-UINTAH	Site: NBU 920-12H	Rig Name No: PIONEER 69/69, PROPETRO/
Event: DRILLING	Start Date: 11/15/2009	End Date: 12/6/2010
Active Datum: RKB @4,722.00ft (above Mean Sea Level)	UWI: SE/NE/0/9/S/20/E/12/0/0/26/PM/N/2,170.00/E/0/279.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
11/30/2010	0:00 - 6:00	6.00	DRLPRO	02	B	P		DRILL F/ 8460'-8671',211'/6HR,35.2'/HR, 17-21K WOB, RPM/40-45, MMRPM/67, SPM/110, GPM 416, UP/SO/ROT 170/155/167, ON/OFF 2280/1980, DIFF/250-300, VIS/40 WT/12.1, 3% LCM
	6:00 - 11:00	5.00	DRLPRO	02	B	P		DRILL F/ 8671'-8798',227'/5HR,45.4'/HR, 17-21K WOB, RPM/40-45, MMRPM/67, SPM/110, GPM 416, UP/SO/ROT 170/155/167, ON/OFF 2350/2030, DIFF/250-400, VIS/42 WT/12.2 LCM/ 3%
	11:00 - 11:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	11:30 - 0:00	12.50	DRLPRO	02	B	P		DRILL F/ 8798'-9178',380'/12.5HR,30.4'/HR, 17-21K WOB, RPM/40-45, MMRPM/67, SPM/110, GPM 416, UP/SO/ROT 180/160/175, ON/OFF 2320/2050, DIFF/200-350, VIS/44 WT/12.3 LCM/ 3%
12/1/2010	0:00 - 6:00	6.00	DRLPRO	02	B	P		DRILL F/ 9178'-9377',199'/6HR,33.2'/HR, 17-21K WOB, RPM/40-45, MMRPM/67, SPM/110, GPM 416, UP/SO/ROT 182/163/178, ON/OFF 2370/2080, DIFF/200-350, VIS/44 WT/12.5 LCM/ 3% GETTING .2-.3# GAS CUT MUD
	6:00 - 15:00	9.00	DRLPRO	02	B	P		DRILL F/ 9377'-9652',275'/9HR,30.1'/HR, 14-21K WOB, RPM/40-45, MMRPM/67, SPM/110, GPM 416, UP/SO/ROT 190/165/183, ON/OFF 2390/2150, DIFF/200-350, VIS/44 WT/12.9 LCM/ 4% HAD A 15' FLARE @ 9450' W/ 12.6+ MW
	15:00 - 15:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	15:30 - 0:00	8.50	DRLPRO	02	B	P		DRILL F/ 9652'-9873,221'/6HR,36.8'/HR, 14-21K WOB, RPM/40-45, MMRPM/67, SPM/110, GPM 416, UP/SO/ROT 195/170/185, ON/OFF 2420/2175, DIFF/200-300, VIS/46 WT/13.1 LCM/ 4%
12/2/2010	0:00 - 6:00	6.00	DRLPRO	02	B	P		DRILL F/ 9873'-10031',158'/6HR,26.3'/HR, 14-21K WOB, RPM/40-45, MMRPM/67, SPM/110, GPM 416, UP/SO/ROT 195/170/185, ON/OFF 2420/2175, DIFF/200-300, VIS/46 WT/13.1 LCM/ 4%
	6:00 - 15:00	9.00	DRLPRO	02	B	P		DRILL F/ 10031'-10221',190'/9HR,21.1'/HR, 14-21K WOB, RPM/40-45, MMRPM/67, SPM/110, GPM 416, UP/SO/ROT 200/170/188, ON/OFF 2420/2175, DIFF/200-300, VIS/46 WT/13.1 LCM/ 4%
	15:00 - 15:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	15:30 - 18:00	2.50	DRLPRO	02	B	P		DRILL F/ 10221'-10250',29'/2.5HR,11.6'/HR, 14-24K WOB, RPM/40-45, MMRPM/67, SPM/110, GPM 416, UP/SO/ROT 200/170/188, ON/OFF 2450/2175, DIFF/200-300, VIS/46 WT/13.1 LCM/ 4%
	18:00 - 19:00	1.00	DRLPRO	05	C	P		CIRCUL;ATE, MIX AND PUMP A 60 BBL. SLUG
	19:00 - 0:00	5.00	DRLPRO	06	A	P		TOH F/ BIT #2
12/3/2010	0:00 - 5:00	5.00	DRLPRO	06	A	P		L/D DIRECTIONAL TOOLS P/U NEW MOTOR & TIH TO THE CASING SHOE W/ BIT #3
	5:00 - 7:00	2.00	DRLPRO	09	A	P		FILLTHE PIPE, CUT AND SLIP110' OF DRILLING LINE
	7:00 - 7:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	7:30 - 8:00	0.50	DRLPRO	23		P		ADJUST THE BRAKES
	8:00 - 11:30	3.50	DRLPRO	06	A	P		TIH. FILL THE PIPE @ 6500'
	11:30 - 12:00	0.50	DRLPRO	03	E	P		P/U 3 JTS OF DP AND WASH TO BOTTOM. NO FILL
	12:00 - 0:00	12.00	DRLPRO	02	B	P		DRILL F/ 10250'-10627',377'/12HR,31.4'/HR, 17-20K WOB, RPM/40-45, MMRPM/67, SPM/110, GPM 416, UP/SO/ROT 200/170/188, ON/OFF 2505/2250, DIFF/200-350, VIS/46 WT/13.1 LCM/ 4%
12/4/2010	0:00 - 7:00	7.00	DRLPRO	02	B	P		DRILL F/ 10627'-10826',199'/7HR,28.4'/HR, 17-20K WOB, RPM/40-45, MMRPM/67, SPM/110, GPM 416, UP/SO/ROT 200/170/188, ON/OFF 2505/2250, DIFF/200-350, VIS/46 WT/13.2 LCM/ 4%

US ROCKIES REGION

Operation Summary Report

Well: NBU 920-12H	Spud Conductor: 11/16/2009	Spud Date: 11/18/2009
Project: UTAH-UINTAH	Site: NBU 920-12H	Rig Name No: PIONEER 69/69, PROPETRO/
Event: DRILLING	Start Date: 11/15/2009	End Date: 12/6/2010
Active Datum: RKB @4,722.00ft (above Mean Sea Level)	UWI: SE/NE/0/9/S/20/E/12/0/0/26/PM/N/2,170.00/E/0/279.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:00 - 8:30	1.50	DRLPRO	22	G	X		LOOSING CIRC. SLOWED PUMP TO 227 GPM, RAISED THE LCM TO 10% LOST APP 200 BBL.
	8:30 - 10:00	1.50	DRLPRO	02	B	P		DRILL F/ 10826'-10850',24'/1.5HR,16'/HR, 17-20K WOB, RPM/40-45, MMRPM/67, SPM/110, GPM 416, UP/SO/ROT 200/170/188, ON/OFF 2505/2250, DIFF/200-350, VIS/46 WT/13.2 LCM/ 10% LOST ANOTHER 40BBL.
	10:00 - 14:00	4.00	DRLPRO	05	B	X		CIRCULATED / CONTINUED TO BUILD VOLUME CLEAN UP SPOTTED MUD WEIGHT AND INCREASE LCM TO 12%
	14:00 - 15:00	1.00	DRLPRO	05	C	P		MIX AND PUMP A 60 BBL. SLUG
	15:00 - 23:00	8.00	DRLPRO	06	E	P		MADE A WIPER TRIP TO THE SURFACE SHOE 2800'
	23:00 - 0:00	1.00	DRLPRO	05	C	P		CIRCULATED AND CONDITIONED MUD
12/5/2010	0:00 - 0:30	0.50	DRLPRO	05	C	P		CIRC. AND PUMP A SLUG
	0:30 - 7:00	6.50	DRLPRO	06	B	P		TOH F/ LOGS DRAINED AND FLUSHED THE MUD MOTOR. SAME LIGHT DRAG @ 7100' AS THE LAST 3 TRIPS/CLAY STRINGER
	7:00 - 13:00	6.00	DRLPRO	11	D	P		S/M RIGGED UP BAKER ATLAS AND RAN THE TRIPLE COMBO LOG. LOGS BRIDGE OUT @ 7120'. PULLED THE TOOL AND MADE AN ATTEMPT TO RUN IT SLICK.LOG STOPPED AGAIN AT 7120'. CALLED IN AND I WAS TOLD TO LOG IT OUT AND LDDP. LOGGED OUT FROM 7120'. RD BAKER ATLAS
	13:00 - 16:00	3.00	DRLPRO	06	A	P		TIH TO 6600'
	16:00 - 0:00	8.00	DRLPRO	06	A	P		S/M WITH KIMSEY LAYDOWN CREW, RU THE LD TRUCK AND LDDP. TIH WITH THE REST OF THE DP AND LDDP
12/6/2010	0:00 - 2:30	2.50	DRLPRO	06	A	P		LDDP AND DC
	2:30 - 4:00	1.50	DRLPRO	14	B	P		BREAK THE KELLY, PULL THE ROT. RUBBER AND WEAR BUSHING
	4:00 - 5:00	1.00	DRLPRO	12	A	P		S/M W/ KIMSEY, RU TO RUN CASING
	5:00 - 12:00	7.00	DRLPRO	12	C	P		RAN 30 JTS. OF 4.5/HCP-110/11.6#/BTC CASING, 227 JTS. OF 4.5/I-80/11.6#/BTC CASING AND 1 MARKER JT. LANDED @ 10831.73', SHOE/10830.23', FC/10791.10', MARKER SET @ 5221.19' TO 5235.17'.
	12:00 - 13:00	1.00	DRLPRO	05	D	P		CIRCULATED THE CASING. R/D THE CASING CREW AND R/U BJ TO CEMENT.
	13:00 - 15:30	2.50	DRLPRO	12		P		HELD A SM W/ BJ. PRESSURE TESTED LINES TO 4500#. PUMPED A 40 BBL. SPACER, 684 SKS/210 BBLS OF LEAD 13.1#, 1.73 YLD., FLOLOWED BY 1217 SKS/283 BBL. OF TAIL @ 14.3#, 1.31 YLD. DISPLACED W/ 167.7 BBL. OF CLAYTREAT WATER. PD 12/6/2010 15:30. CIRC 25 BBL.OF CEMENT TO SURFACE. FINAL CIRC. 3370 PSI, BUMPED PLUG W/ 3970 PSI. PRESSURE HELD 5 MIN. RETURNED 2 BBL. TO THE TRUCK.
	15:30 - 19:30	4.00	DRLPRO	14	A	P		SET SLIPS 95K WEIGHT ON SLIPS, ND THE BOP, CLEAN PITS. RIG RELEASED 12/6/2010 19:30

Operation Summary Report

Well: NBU 920-12H	Spud Conductor: 11/16/2009	Spud Date: 11/18/2009
Project: UTAH-UINTAH	Site: NBU 920-12H	Rig Name No: PIONEER 69/69, PROPETRO/
Event: DRILLING	Start Date: 11/15/2009	End Date: 12/6/2010
Active Datum: RKB @4,722.00ft (above Mean Sea Level)	UWI: SE/NE/0/9/S/20/E/12/0/0/26/PM/N/2,170.00/E/0/279.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	19:30 - 19:30	0.00	DRLPRO					CONDUCTOR CASING: Cond. Depth set: Cement sx used: SPUD DATE/TIME: 11/18/2010 21:30 SURFACE HOLE: Surface From depth: 18 Surface To depth: 2,844 Total SURFACE hours: 28.00 Surface Casing size: 8 7/8 # of casing joints ran: 64 Casing set MD: 2,812.0 # sx of cement: 220/LEAD 200/TAIL 150/TOP OFF Cement blend (ppg:) 11.0/LEAD 15.8/TAIL 15.8/TOP OFF Cement yield (ft3/sk): 3.82/LEAD 1.15/TAIL 1.15/TOP OFF # of bbls to surface: Describe cement issues: Describe hole issues: PRODUCTION: Rig Move/Skid start date/time: 11/22/2010 8:00 Rig Move/Skid finish date/time: 11/22/2010 17:00 Total MOVE hours: 9.0 Prod Rig Spud date/time: 11/24/2010 13:30 Rig Release date/time: 12/6/2010 19:30 Total SPUD to RR hours: 294.0 Planned depth MD 10,850 Planned depth TVD 10,850 Actual MD: 10,850 Actual TVD: 10,847 Open Wells $: $870,579 AFE $: $1,077,988 Open wells $/ft: $80.13 PRODUCTION HOLE: Prod. From depth: 2,844 Prod. To depth: 10,850 Total PROD hours: 209 Log Depth: 7120 Float Collar Top Depth: 10793 Production Casing size: 4 1/2 # of casing joints ran: 258 Casing set MD: 10,834.0 Stage 1 # sx of cement: 684 Cement density (ppg:) 13.1 Cement yield (ft3/sk): 1.73 Stage 2 # sx of cement: 1,217 Cement density (ppg:) 14.3 Cement yield (ft3/sk): 1.31 Top Out Cmt # sx of cement: Cement density (ppg:) Cement yield (ft3/sk): Est. TOC (Lead & Tail) or 2 Stage : LEAD /18' TAIL/4550' Describe cement issues: Describe hole issues: DIRECTIONAL INFO:

US ROCKIES REGION

Operation Summary Report

Well: NBU 920-12H	Spud Conductor: 11/16/2009	Spud Date: 11/18/2009	
Project: UTAH-UINTAH	Site: NBU 920-12H		Rig Name No: PIONEER 69/69, PROPETRO/
Event: DRILLING	Start Date: 11/15/2009		End Date: 12/6/2010
Active Datum: RKB @4,722.00ft (above Mean Sea Level)	UWI: SE/NE/0/9/S/20/E/12/0/0/26/PM/N/2,170.00/E/0/279.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
								KOP: Max angle: Departure: Max dogleg MD:

US ROCKIES REGION

Operation Summary Report

Well: NBU 920-12H	Spud Conductor: 11/16/2009	Spud Date: 11/18/2009	
Project: UTAH-UINTAH	Site: NBU 920-12H		Rig Name No: SWABBCO 6/6
Event: COMPLETION	Start Date: 2/7/2011		End Date: 3/15/2011
Active Datum: RKB @4,722.00ft (above Mean Sea Level)	UWI: SE/NE/0/9/S/20/E/12/0/0/26/PM/N/2,170.00/E/0/279.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
2/22/2011	7:00 - 7:15	0.25	COMP	48		P		JSA= MOVE RIG & EQUIP
	7:15 - 17:00	9.75	COMP	30		P		RD RIG ON NBU 921-27HT MOVE RIG & EQUIP TO NBU 920-12H SPOT RIG & EQUIP RU RIG ND WELL HEAD NU BOPS SPOT IN TUBING FLOAT TALLEY & PU 266 POOH 10 JNTS EOT @8100' SWI PREP TO POOH TOMOROW & TEST SDFN
2/23/2011	7:00 - 7:15	0.25	COMP	48		P		JSA= PRESS TEST
	7:15 - 15:00	7.75	COMP	30		P		0 PSI ON WELL, EOT @ 8100' CONTINUE TO POOH W/ TUBING LD BHA RD FLOOR & TUB EQUIP ND BOPS NU FRAC VALVES RU FLOOR NU TESTERS, TEST AS PER PROC TO 7000# ON CAS & 900# ON SURFACE PREP WELL TO FRAC SWI SDFN.
2/24/2011	7:00 - 7:15	0.25	COMP	48		P		JSA= RUNNING TUBING
	7:15 - 12:00	4.75	COMP	30		P		0 PSI ON WELL ND FRAC VALVES NU BOPS RU TUBING EQUIP RIH W/ TUBING IN DERRICK RD FLOOR & TUBING EQUIP ND BOPS NU WELLHEAD RD RIG PUMP RD RIG MOVE EQUIP & RIG TO NBU 920-23N
3/8/2011	7:00 - 7:30	0.50	COMP	48		P		HSM, MOVEING RIG & EQUIP ON MUDDY ROADS
	7:30 - 13:30	6.00	COMP	30	A	P		BLACK 6-155, ALL EQUIP HAD TO BE PULL OUT W/ GRADER, MIRU. ND WH NU BOPS, RU FLOOR & TBG EQUIP.
	13:30 - 17:30	4.00	COMP	31	I	P		UNLAND & POOH W/ 264 JTS 23/8 L-80. RD FLOOR, ND BOPS, NU FRAC VALVES, PREP TO TEST IN AM, SWI SDFN
3/9/2011	7:00 - 7:30	0.50	COMP	48		P		HSM, PRESURE TESTING CSG W/ B&C, STAYING AWAY F/ WELL HEAD, & WORKING W/ WIRE LINE.
	7:30 - 10:30	3.00	COMP	33	C	P		RU B&C,(SURFACE VALVE IS LOCKED OUT OPEN.) WATER TRUCK SUCKED WATER AWAY FROM WELL HEAD FOUND 11"X 5K X 41/16 10 K FLANGE ONLY HAD EVERY OTHER BOLT IN PLACE AND WERE LOOSE. TIGHTEN BOLTS. FILL CSG W/ 30 BBLS WTR, PRESSURE TEST 41/2 CSG & FRAC VALVES TO 500# FOR 15 MIN, 2500# FOR 15 MIN, 7,000# FOR 15 MIN ON CHART & DIGITAL METER.
	10:30 - 15:00	4.50	COMP	37	B	P		RU CUTTERS WIRE LINE, RIH 31/8 EXP GNS, 23 GRM, .36" HOLES 90 DEG & 120 DEG PHASING PERF F/ 10.584'-10,586' 4 SPF 8 HLS. 10,532'-10,534' 3 SPF 6 HLS. 10,488'-10,489' 4 SPF 4 HLS. 10,450'-10,451' 4 SPF 4 HLS. (22 HOLES TOTAL.) POOH SWI PREP TO FRAC IN AM.
3/10/2011	7:00 - 7:30	0.50	COMP	48		P		HSM, WORKING W/ FRAC CREW.
	7:30 - 14:00	6.50	COMP	46	E	P		WAIT ON SUPERIOR.
	13:00 - 15:30	2.50	COMP	36	E	P		SUPERIOR PULLED ON LOCATION THEIR CHEMICAL TRUCK GOT STUCK UNABLE TO PULL OUT W/ 2- TRUCKS, ORDERED GRADER. PULLED OUT TRUCK, SUPERIOR WILL GET RIGGED UP & READY TO PUMP IN AM.
3/11/2011	7:00 - 7:30	0.50	COMP	48		P		HSM, WORKING W/ FRAC CREW.

Operation Summary Report

Well: NBU 920-12H	Spud Conductor: 11/16/2009	Spud Date: 11/18/2009	
Project: UTAH-UINTAH	Site: NBU 920-12H		Rig Name No: SWABBCO 6/6
Event: COMPLETION	Start Date: 2/7/2011		End Date: 3/15/2011
Active Datum: RKB @4,722.00ft (above Mean Sea Level)	UWI: SE/NE/0/9/S/20/E/12/0/0/26/PM/N/2,170.00/E/0/279.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:30 - 9:26	1.93	COMP	36	E	P		PRIME PUMPS & LINES, TEST LINES TO 7500# PSI. (STG #1) WHP 2117 PSI, BRK 3636 PSI @ 4.3 BPM, ISIP 3018 PSI, FG .73. PUMP 100 BBLS @ 27.9 BPM @ 5384 PSI = 60% PERFS OPEN. MP 7174 PSI, MR 39.9 BPM, AP 6116 PSI, AR 35.6 BPM, ISIP 3233 PSI, FG ,75. NPI 215 PSI, PMPD 815 BBLS SW & 15,097 LBS OF 30/50 SND & 5,000# 20/40 RESIN SAND. TOTAL PROP 20,097 LBS.
	9:26 - 12:06	2.67	COMP	36	E	P		(STG #2) PU 41/2" HAL CBP & 31/8 EXP GNS, 23 GRM, .36" HOLES.120 & 90 DEG PHASING. SET CBP @ 10,250' & PERF 10,216'- 10,217' 4 SPF 4 HLS. 10,152'-10,153' 4 SPF 4 HLS. 10,098'-10,100' 4 SPF 8 HLS. 10,034'-10036' 3 SPF 6 HLS. TOTAL 22 HOLES. WHP 209 PSI, BRK 5435 PSI @ 4.7 BPM, ISIP 3673 PSI, FG .80. PUMP 100 BBLS @ 15.8 BPM @ 6569 PSI = 30% PERFS OPEN. MP 7078 PSI, MR 35.8 BPM, AP 6427 PSI, AR 20.0 BPM, ISIP 3727 PSI, FG ,81. NPI 54 PSI, PMPD 930 BBLS SW & 15,558 LBS OF 30/50 SND & 5,000# 20/40 RESIN SAND. TOTAL PROP 20,558 LBS. NEVER GOT ANY ACID IN FLUSH. HAD TO PUMP EXTRA 250 GALS ACID, STILL NO BIG BREAK, START SAND SLOW & RAMPED UP.
	12:06 - 14:44	2.63	COMP	36	E	P		(STG #3) PU 41/2" HAL CBP & 31/8 EXP GNS, 23 GRM, .36" HOLES. 90 DEG PHASING. SET CBP @ 9987' & PERF 9954'-9957' 4 SPF 12 HLS, 9851'-9854' 4 SPF 12 HLS, TOTAL 24 HOLES. WHP 220 PSI, BRK 3483 PSI @ 4.8 BPM, ISIP 2562 PSI, FG .70. PUMP 100 BBLS @ 32.1 BPM @ 5765 PSI = 60% PERFS OPEN. MP 6850 PSI, MR 42.8 BPM, AP 6342 PSI, AR 40.0 BPM, ISIP 3471 PSI, FG ,79. NPI 909 PSI, PMPD 743 BBLS SW & 19,658 LBS OF 30/50 SND & 5,000# 20/40 RESIN SAND. TOTAL PROP 24,658 LBS.
	14:44 - 16:31	1.78	COMP	36	E	P		(STG #4) PU 41/2" HAL CBP & 31/8 EXP GNS, 23 GRM, .36" HOLES. 120 DEG PHASING. SET CBP @ 9793' & PERF 9740'-9743' 3 SPF 9 HLS, 9660'-9663' 3 SPF 9 HLS. 9590'-9592' 3 SPF 6 HLS, TOTAL 24 HOLES. WHP 1522 PSI, BRK 3452 PSI @ 4.7 BPM, ISIP 2616 PSI, FG .71. PUMP 100 BBLS @ 38.0 BPM @ 6381 PSI = 60% PERFS OPEN. MP 6522 PSI, MR 42.5 BPM, AP 6020 PSI, AR 40.4 BPM, ISIP 3247 PSI, FG ,77. NPI 631 PSI, PMPD 1133 BBLS SW & 39,717 LBS OF 30/50 SND & 5,000# 20/40 RESIN SAND. TOTAL PROP 44717 LBS. SWI
	16:31 - 17:00	0.48	COMP	36	E	P		FILL PUMP LINES & WELL HEAD W/ BRINE SDFN.
3/12/2011	7:00 - 7:30	0.50	COMP	48		P		HSM, WORKING W/ WIRE LINE & FRAC CREW.

US ROCKIES REGION

Operation Summary Report

Well: NBU 920-12H	Spud Conductor: 11/16/2009	Spud Date: 11/18/2009	
Project: UTAH-UINTAH	Site: NBU 920-12H		Rig Name No: SWABBCO 6/6
Event: COMPLETION	Start Date: 2/7/2011		End Date: 3/15/2011
Active Datum: RKB @4,722.00ft (above Mean Sea Level)	UWI: SE/NE/0/9/S/20/E/12/0/0/26/PM/N/2,170.00/E/0/279.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:30 - 8:43	1.22	COMP	36	E	P		(STG #5) PU 41/2" HAL CBP & 31/8 EXP GNS, 23 GRM, .36" HOLES. 120 & 90 DEG PHASING. SET CBP @ 9563' & PERF 9511'-9513' 3 SPF 6 HLS, 9424'-9425' 4 SPF 4 HLS, 9354'-9355' 4 SPF, 4 HLS, 9330'-9331' 4 SPF 4 HLS, 9280'-9281' 4 SPF 4 HLS, 22 TOTAL HOLES. WHP 307 PSI, BRK 4353 PSI @ 5.2 BPM, ISIP 3078 PSI, FG .77. PUMP 100 BBLS @ 48 BPM @ 5929 PSI = 100% PERFS OPEN. MP 6779 PSI, MR 49.6 BPM, AP 5682 PSI, AR 43.8 BPM, ISIP 3353 PSI, FG ,80. NPI 275 PSI, PMPD 1288 BBLS SW & 47,143 LBS OF 30/50 SND & 5,000# 20/40 RESIN SAND. TOTAL PROP 52,143 LBS. (LOST ONE PUMP LOST RATE.)
	8:43 - 11:36	2.88	COMP	36	E	P		(STG #6) PU 41/2" HAL CBP & 31/8 EXP GNS, 23 GRM, .36" HOLES. 120 & 90 DEG PHASING. SET CBP @ 9181' & PERF 9130'-9131' 4 SPF, 4 HLS, 9088'-9089' 3 SPF, 3 HLS, 9032'-9034' 3 SPF, 6 HLS. 8962'-8963' 3 SPF, 3 HLS. 8930'-8931' 4 SPF, 4 HLS. 8880'-8881' 4 SPF, 4 HLS. 24 TOTAL HOLES WHP 2425 PSI, BRK 3402 PSI @ 4.6 BPM, ISIP 2694 PSI, FG .74. PUMP 100 BBLS @ 49.9 BPM @ 6229 PSI = 80% PERFS OPEN. MP 6769 PSI, MR 54.2 BPM, AP 5670 PSI, AR 49.8 BPM, ISIP 3346 PSI, FG ,81. NPI 652 PSI, PMPD 2179 BBLS SW & 80,068 LBS OF 30/50 SND & 5,000# 20/40 RESIN SAND. TOTAL PROP 85,068 LBS. (HAD TO REUILD 2 PUMPS BEFORE STAGE)
	11:36 - 13:51	2.25	COMP	36	E	P		(STG #7) PU 41/2" HAL CBP & 31/8 EXP GNS, 23 GRM, .36" HOLES. 120 & 90 DEG PHASING. SET CBP @ 8831' & PERF 8800'-8801' 4 SPF, 4 HLS. 8760'-8761' 3 SPF, 3 HLS, 8732'-8733' 4 SPF, 4 HLS. 8708'-8710' 3 SPF, 6 HLS. 8658'-8660' 3 SPF, 6 HLS. 23 TOTAL HOLES. WHP 532 PSI, BRK 4595 PSI @ 4.6 BPM, ISIP 2428 PSI, FG .72. PUMP 100 BBLS @ 46.6 BPM @ 6325 PSI = 69% PERFS OPEN. MP 6712 PSI, MR 51.9 BPM, AP 5599 PSI, AR 49.1 BPM, ISIP 3818 PSI, FG ,78. NPI 590 PSI, PMPD 2222 BBLS SW & 79,973 LBS OF 30/50 SND & 5,000# 20/40 RESIN SAND. TOTAL PROP 84,973 LBS. (HAD TO REBUILD 1 PUMP BEFORE STG.)

US ROCKIES REGION

Operation Summary Report

Well: NBU 920-12H	Spud Conductor: 11/16/2009	Spud Date: 11/18/2009	
Project: UTAH-UINTAH	Site: NBU 920-12H		Rig Name No: SWABBCO 6/6
Event: COMPLETION	Start Date: 2/7/2011		End Date: 3/15/2011
Active Datum: RKB @4,722.00ft (above Mean Sea Level)	UWI: SE/NE/0/9/S/20/E/12/0/0/26/PM/N/2,170.00/E/0/279.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	13:51 - 15:35	1.73	COMP	36	E	P		(STG #8) PU 41/2" HAL CBP & 31/8 EXP GNS, 23 GRM, .36" HOLES. 120 & 90 DEG PHASING. SET CBP @ 8586' & PERF 8534'-8536' 4 SPF, 8 HLS. 8516'-8517' 4 SPF, 4 HLS. 8500'-8502' 4 SPF, 8 HLS. 8480'-8481' 3 SPF, 3 HLS. 23 TOTAL HOLES. WHP 351 PSI, BRK 3358 PSI @ 4.7 BPM, ISIP 1939 PSI, FG .67. PUMP 100 BBLS @ 43.7 BPM @ 6381 PSI = 60% PERFS OPEN. MP 6788 PSI, MR 50.8 BPM, AP 5918 PSI, AR 46.7 BPM, ISIP 3068 PSI, FG ,80. NPI 1129 PSI, PMPD 1782 BBLS SW & 59,205 LBS OF 30/50 SND & 5,000# 20/40 RESIN SAND. TOTAL PROP 64,205 LBS. (10,795 LBS SAND SHORT FOR THIS STAGE.) TOTAL WATER = 11,092 BBLS .43 TOTAL SAND = 396,419 LBS 226 = GALS BIOCIDE 1119 = GALS SCALE INH
	15:35 - 17:30	1.92	COMP	36	E	P		(KILL PLUG) PU 41/2" HAL 8K CBP RIH & SET @ 8440' POOH, SWI, RD CUTTERS & SUPEIOR, SDFN
3/14/2011	7:00 - 7:30	0.50	COMP	48		P		HSM, DRILLING CBPS.
	7:30 - 10:00	2.50	COMP	31	I	P		SICP 0, ND FRAC VALVE, NU BOPS, RU FLOOR, RIH W/ POBS & 264 JTS 23/8 L-80 OUT OF DERICK.
	10:00 - 17:30	7.50	COMP	44	C	P		RU DRLG EQUIP, BROK CIRC CONVENTIONAL, TEST BOPS TO 3,000# RIH. C/O 5' SAND TAG 1ST PLUG @ 8440' DRL PLG IN 12 MIN 1,500# PSI INCREASE RIH. C/O 35' SAND TAG 2ND PLUG @ 8566' DRL PLG IN 18 MIN 1300# PSI INCREASE RIH C/O 30' SAND TAG 3RD PLUG @ 8831' DRL PLG IN 14 MIN 900# PSI INCREASE RIH C/O 30' SAND TAG 4TH PLUG @ 9160' DRL PLG IN 12 MIN 700# PSI INCREASE RIH C/O 35' SAND TAG 5TH PLUG @ 9550' DRL PLG IN 12 MIN 700# PSI INCREASE RIH C/O 75' SAND TAG 6TH PLUG @ 9780' DRL PLG IN 10 MIN 500# PSI INCREASE RIH C/O 30' SAND TAG 7TH PLUG @ 9987' DRL PLG IN 16 MIN 400# PSI INCREASE. RIH TO 10,051' CIRC CLEAN, SWI, LOCK PIPE RAMS, DRAIN UP SDFN.
3/15/2011	7:00 - 7:30	0.50	COMP			P		HSM, EQUILIZING WELL.

US ROCKIES REGION

Operation Summary Report

Well: NBU 920-12H	Spud Conductor: 11/16/2009	Spud Date: 11/18/2009	
Project: UTAH-UINTAH	Site: NBU 920-12H		Rig Name No: SWABBCO 6/6
Event: COMPLETION	Start Date: 2/7/2011		End Date: 3/15/2011
Active Datum: RKB @4,722.00ft (above Mean Sea Level)	UWI: SE/NE/0/9/S/20/E/12/0/0/26/PM/N/2,170.00/E/0/279.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:30 - 15:00	7.50	COMP	44	C	P		SICP 2500# PSI SITP 0# PSI, OPEN CSG TO PIT, EQUILIZE PSI TO RUBBER, BROKE CIRC WORK TBG EVERY THING WAS OK. RIH. C/O 38' SAND TAG 8TH PLUG @ 10,250' DRL PLG IN 6 MIN 550# PSI INCREASE RIH. C/O TO 10.889' CIRC CLEAN, RACK OUT SWIVEL. L/D 22 JTS, LAND TBG ON 315 JTS 23/8 L-80. RD FLOOR, ND BOPS NU WH. PUMP OFF BIT, RIG DWN RIG. TURN WELL OVER TO FB CREW. PREP TO MOVE IN AM TO NBU 920-12F. SICP = 2450 FTP = 100 KB = 15' HANGER 71/16 = .83' 315 JTS 23/8 L-80 = 9975.67' (SURFAC VALVE OPEN) 1.875 X/N & POBS = 2.20' EOT @ 9993.70' TWTR = 11,372 BBLS TWR = 2500 BBLS TWLTR = 8872 BBLS 348 JTS HAULED OUT 315 LANDED 33 TO RETURN
	14:00 - 14:00	0.00	PROD	50				WELL TURNED TO SALES @ 1400 HR ON 3/15/11 - 995 MCFD, 2160 BWPD, CP 2450#, FTP 2150#, CK 20/64"
	7:00 -			33	A			7 AM FLBK REPORT: CP 2200#, TP NA#, NA/64" CK, NA BWPH, NA SAND, NA GAS TTL BBLS RECOVERED: 0 BBLS LEFT TO RECOVER: 0
3/16/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 2800#, TP 2275#, 20/64" CK, 62 BWPH, HVY SAND, 1.5 GAS TTL BBLS RECOVERED: 3759 BBLS LEFT TO RECOVER: 7613
3/17/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 3700#, TP 2350#, 20/64" CK, 47 BWPH, LIGHT SAND, 2 GAS TTL BBLS RECOVERED: 5077 BBLS LEFT TO RECOVER: 6295
3/18/2011	7:00 -			33	B			7 AM FLBK REPORT: CP 3325#, TP 2250#, 20/64" CK, 37 BWPH, LIGHT SAND, 2.2 GAS TTL BBLS RECOVERED: 6033 BBLS LEFT TO RECOVER: 5339
3/19/2011	7:00 -			50				WELL IP'D ON 3/19/11 - 2256 MCFD, 0 BOPD, 652 BWPD, CP 2750#, FTP 1900#, CK 20/64", LP 136#, 24 HRS
	7:00 -			33	A			7 AM FLBK REPORT: CP 2975#, TP 2050#, 20/64" CK, 28 BWPH, LIGHT SAND, 2.3 GAS TTL BBLS RECOVERED: 6761 BBLS LEFT TO RECOVER: 4611
3/20/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 2725#, TP 1900#, 20/64" CK, 25 BWPH, LIGHT SAND, 2.1 GAS TTL BBLS RECOVERED: 7401 BBLS LEFT TO RECOVER: 3971

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well Information

Well	NBU 920-12H	**Wellbore No.**	OH
Well Name	NBU 920-12H	**Common Name**	NBU 920-12H
Project	UTAH-UINTAH	**Site**	NBU 920-12H
Vertical Section Azimuth		**North Reference**	True
Origin N/S		**Origin E/W**	
Spud Date	11/18/2009	**UWI**	SE/NE/0/9/S/20/E/12/0/0/26/PM/N/2,170.00/E/0/279.00/0/0
Active Datum	RKB @4,722.00ft (above Mean Sea Level)		

2 Survey Name

2.1 Survey Name: Survey #1

Survey Name	Survey #1	**Company**	PROPETRO
Started	11/19/2009	**Ended**	
Tool Name	INC	**Engineer**	Anadarko

2.1.1 Tie On Point

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)
14.00	0.00	0.00	14.00	0.00	0.00

2.1.2 Survey Stations

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
11/19/2009	Tie On	14.00	0.00	0.00	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/19/2009	NORMAL	1,794.00	0.75		1,793.95	11.65	0.00	11.65	0.04	0.04	0.00	0.00
11/20/2009	NORMAL	2,784.00	1.25		2,783.80	28.93	0.00	28.93	0.05	0.05	0.00	0.00

2.2 Survey Name: Survey #2

Survey Name	Survey #2	**Company**	SCIENTIFIC
Started	11/24/2010	**Ended**	
Tool Name	MWD	**Engineer**	JARED

2.2.1 Tie On Point

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)
2,784.00	1.25	0.00	2,783.80	28.93	0.00

2.2.2 Survey Stations

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
11/24/2010	Tie On	2,784.00	1.25	0.00	2,783.80	28.93	0.00	28.93	0.00	0.00	0.00	0.00
11/24/2010	NORMAL	2,895.00	0.88	176.44	2,894.79	29.29	0.05	29.29	1.92	-0.33	158.95	178.53
	NORMAL	3,399.00	2.02	185.52	3,398.62	16.58	-0.56	16.58	0.23	0.23	1.80	15.96
11/25/2010	NORMAL	3,905.00	1.23	224.60	3,904.43	3.84	-5.23	3.84	0.26	-0.16	7.72	143.94
	NORMAL	4,410.00	1.93	181.10	4,409.25	-8.52	-9.20	-8.52	0.27	0.14	-8.61	-82.70
	NORMAL	4,916.00	2.46	177.05	4,914.87	-27.89	-8.81	-27.89	0.11	0.10	-0.80	-18.34
	NORMAL	5,263.00	2.37	190.50	5,261.57	-42.38	-9.73	-42.38	0.16	-0.03	3.88	105.70
11/26/2010	NORMAL	5,831.00	1.76	191.64	5,829.20	-62.47	-13.63	-62.47	0.11	-0.11	0.20	176.72
	NORMAL	6,399.00	1.58	174.50	6,396.96	-78.81	-14.64	-78.81	0.09	-0.03	-3.02	-118.25
	NORMAL	6,841.00	1.76	164.05	6,838.77	-91.40	-12.19	-91.40	0.08	0.04	-2.36	-64.71
11/27/2010	NORMAL	7,349.00	1.76	175.47	7,346.54	-106.68	-9.43	-106.68	0.07	0.00	2.25	95.71
11/28/2010	NORMAL	7,856.00	1.06	198.15	7,853.38	-118.89	-10.28	-118.89	0.17	-0.14	4.47	152.40
11/29/2010	NORMAL	8,363.00	0.53	200.96	8,360.33	-125.54	-12.58	-125.54	0.10	-0.10	0.55	177.20
11/30/2010	NORMAL	8,835.00	0.79	159.91	8,832.30	-130.64	-12.24	-130.64	0.11	0.06	-8.70	-82.77
12/1/2010	NORMAL	9,312.00	1.49	162.29	9,309.20	-139.63	-9.22	-139.63	0.15	0.15	0.50	5.06
	NORMAL	9,817.00	1.49	152.97	9,814.03	-151.73	-4.24	-151.73	0.05	0.00	-1.85	-94.66
12/2/2010	NORMAL	10,194.00	1.76	158.42	10,190.88	-161.48	0.11	-161.48	0.08	0.07	1.45	32.53
12/4/2010	NORMAL	10,850.00	1.76	158.42	10,846.57	-180.22	7.52	-180.22	0.00	0.00	0.00	0.00

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: **KERR-McGEE OIL & GAS ONSHORE, L.P.**

Well Name: **NBU 920-12H**

Api No: **43-047-50179** Lease Type: **FEDERAL**

Section **12** Township **09S** Range **20E** County **UINTAH**

Drilling Contractor **PETE MARTIN DRLG** RIG # **BUCKET**

SPUDDED:

Date **11/16/2009**

Time **9:00 AM**

How **DRY**

Drilling will Commence:

Reported by **JAMES GOBEL**

Telephone # **(435) 828-7024**

Date **11/16/2009** **Signed** **CHD**